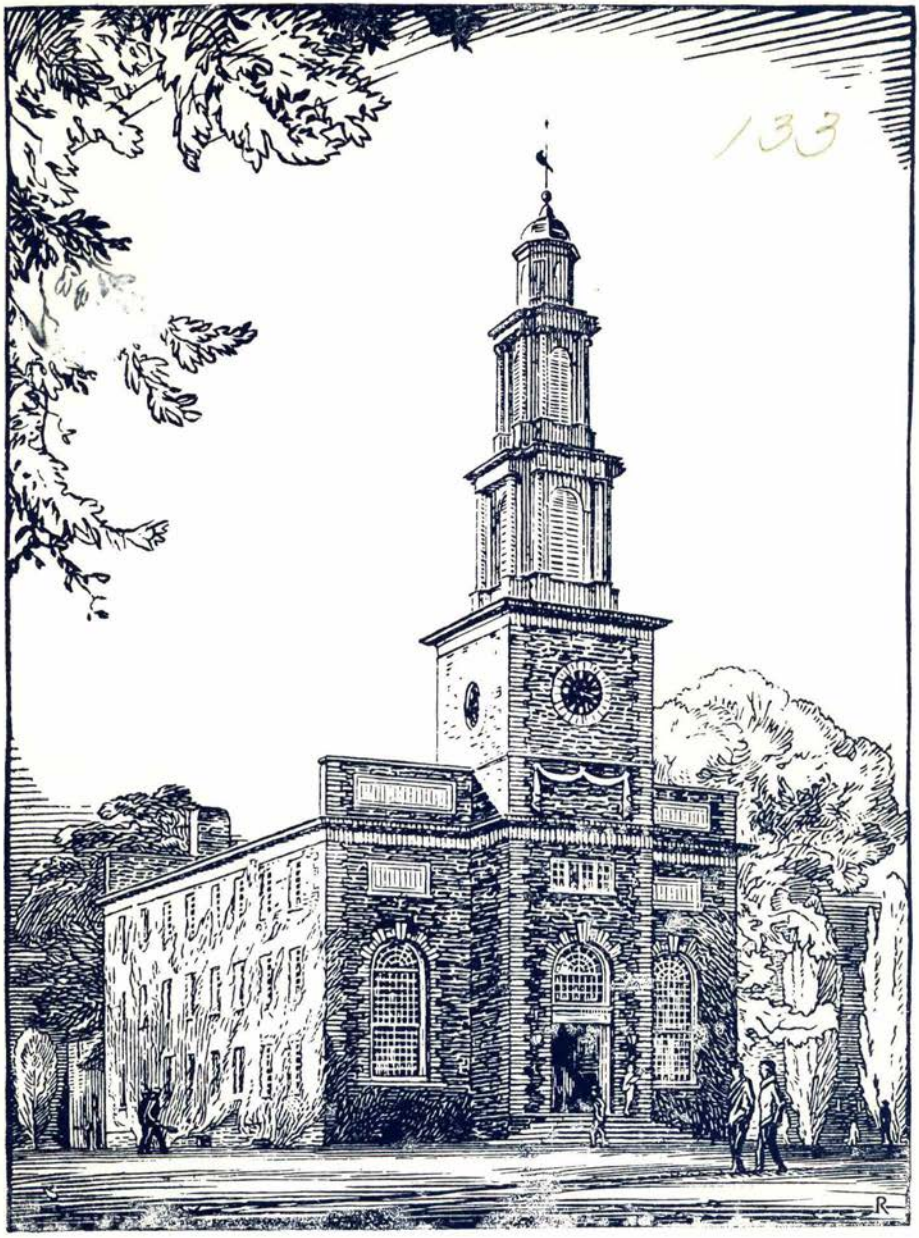

HAMILTON COLLEGE

CATALOGUE

1963 - 1964

HAMILTON COLLEGE CATALOGUE

Program for 1963-64

Records for 1962-63

Clinton, New York

September, 1963

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College Calendar

1963-64

SEPT.	13-18	Fri-Wed.	Freshman induction.
	16-18	Mon.-Wed.	Registration for upper classes.
	19	Thurs.	Beginning of academic year, 8 a.m. College convocation.
OCT.	12	Sat.	Fall house parties.
	17	Thurs.	Quarter term warnings due for freshmen.
	26	Sat.	Homecoming.
NOV.	11	Mon.	Mid-semester warnings due.
	16	Sat.	Union game at Schenectady.
	27	Wed.	Thanksgiving recess begins, 12 noon.
DEC.	2	Mon.	Thanksgiving recess ends, 8 a.m.
	19	Thurs.	Christmas recess begins, 4 p.m.
JAN.	6	Mon.	Christmas recess ends, 8 a.m.
	20-28	Mon.-Tues.	Final examinations.
FEB.	3	Mon.	Beginning of seceond semester, 8 a.m.
	29	Sat.	Winter carnival.
MAR.	25	Wed.	Mid-semester warnings due.
	28	Sat.	Spring recess begins, 12 noon.
APR.	7	Tues.	Spring recess ends, 8 a.m.
	13	Mon.	Sophomore elections of concentration due.
	25	Sat.	Parents Day.
	30	Thurs.	Pre-registration for 1964-65 due.
MAY	2	Sat.	Spring house parties.
	7-8	Thurs.-Fri.	Senior comprehensive examinations.
	20	Wed.	Class and Charter Day.
	25	Mon. to	
JUNE	3	Wed.	Final examinations.
	7	Sun.	Commencement.

1964-65

SEPT.	11-16	Fri.-Wed.	Freshmen induction.
	14-16	Mon.-Wed.	Registration for upper classes.
	17	Thurs.	Beginning of academic year, 8 a.m. College convocation.
OCT.	15	Thurs.	Quarter term warnings due for freshmen.
	17	Sat.	Fall house parties.
NOV.	9	Mon.	Mid-semester warnings due.
	14	Sat.	Union game.
	25	Wed.	Thanksgiving recess begins, 12 noon.
	30	Mon.	Thanksgiving recess ends, 8 a.m.
DEC.	19	Sat.	Christmas recess begins, 12 noon.
JAN.	4	Mon.	Christmas recess ends, 8 a.m.
	18-26	Mon.-Tues.	Final examinations.
FEB.	1	Mon.	Beginning of second semester, 8 a.m.
	27	Sat.	Winter carnival.
MAR.	24	Wed.	Mid-semester warnings due.
	27	Sat.	Spring recess begins, 12 noon.
APR.	6	Tues.	Spring recess ends, 8 a.m.
	12	Mon.	Sophomore elections of concentration due.
	24	Sat.	Parents Day.
	29	Thurs.	Pre-registration for 1964-65 due.
MAY	1	Sat.	Spring house parties.
	6-7	Thurs.-Fri.	Senior comprehensive examinations.
	19	Wed.	Class and Charter Day.
	24	Mon. to	
JUNE	2	Wed.	Final examinations.
	6	Sun.	Commencement.

The Hamilton Idea

HAMILTON COLLEGE is one of the oldest small liberal arts colleges in the United States. Instruction has been continuous since 1793 when Samuel Kirkland, missionary to the Iroquois Indians, achieved his lifelong ambition: the founding of an academy.

Because of his contribution to the American Revolution through securing the neutrality of the Indians, Kirkland was able to enlist the support of George Washington and Alexander Hamilton for his proposed academy, Hamilton consenting to be one of the first trustees.

On July 1, 1794, Baron von Steuben, "the drillmaster of the Revolution," laid the cornerstone of the first building of the Hamilton-Oneida Academy. Eighteen years later, in 1812, the academy was chartered as Hamilton College.

As the College begins its 152nd year, the enrollment is about 800 students. The number has been limited by the trustees so that the College can continue to stress the quality of its education, its tradition for intellectual distinction, and its concern with the individual student.

Undergraduates at Hamilton benefit not only from its small size but also from the continuing generosity of its friends and alumni. The amount of endowment, of current support, and of capital investment, represented by the well-equipped plant, enables the College to provide an education far beyond that which tuition alone could support.

Evidence of this is the size of Hamilton's classes. The ratio of faculty to undergraduates is about one to eleven. Hence there is a close and rewarding relationship between students and faculty.

Other characteristics of Hamilton should also be mentioned. From the beginning, Hamilton has affirmed the importance of the Christian faith, but it is not affiliated with any religious denomination. It puts great store on the personal integrity of its students, who govern themselves under a long-established honor system. It puts emphasis on teaching carry-over sports, yet has a varied and vigorous program of intercollegiate athletics. But above all, Hamil-

ton concerns itself with the development of its students' intellectual abilities.

Today a student enrolling at Hamilton is expected to learn to speak and write his own language well, to attain skill in one foreign language, to become acquainted with the methods of science, to expand his knowledge of the relationship between man and society, to become familiar with at least one of the creative arts, and to develop his understanding of ethical and spiritual values. These attainments are essential to a liberal arts education. To prepare young men for useful and effective lives was the original aim of Samuel Kirkland. It is the aim of Hamilton College today.

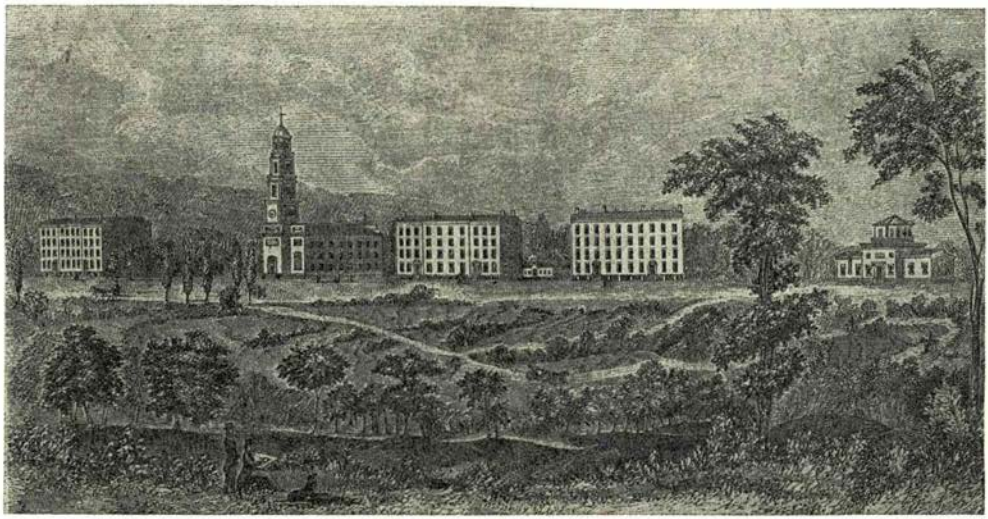
1

ENROLLMENT

Admission

Expenses

Financial Aid



The Campus in 1860

It is my earnest wish that the institution may grow and flourish, that its advantages may be extensive and lasting, and that, under the smiles of the God of wisdom and goodness, it may prove an eminent means of diffusing useful knowledge, enlarging the bounds of human happiness, and aiding the reign of virtue and the kingdom of the blessed Redeemer.

—Samuel Kirkland, founder

Admission

HAMILTON COLLEGE makes a selection among applicants for admission to the freshman class on the basis of scholarship and character. A candidate from a high school will be expected to have an average for his course of not less than 80 per cent. A candidate from a private school should have college certificating grades in all of his subjects. In neither case does the meeting of these minimum standards assure admission.

Because each year there are more qualified applicants than there are places available, admission to the freshman class is competitive. Among the qualified candidates preference will be given to sons of alumni and to those who live in regions or attend schools not already well represented in the class. Preference will also be given to applicants who show promise of being able to make contributions to campus activities.

Since it is the experience of the College that freshmen substantially less mature than their classmates do not enjoy the full opportunities of Hamilton life, age is considered in the evaluation of a candidate who would be barely seventeen upon entering.

Application for admission to the freshman class should be made to the Secretary of Admission, Hamilton College, Clinton, New York. A candidate should file his application as early as possible in his senior year. The filing of blue preliminary form facing page 32 will bring the applicant the formal application blank.

REQUIREMENTS for ADMISSION

Secondary School Credits

A candidate for admission is expected to complete a secondary school course which gives preparation for the work of a liberal arts college. Sixteen units will be required, drawn from the usual college preparatory subjects of English, mathematics, foreign language, science, and social studies. Although the College does not prescribe how these subjects shall be distributed, it expects a minimum of four years of English, three years of mathematics, two years of science, and two, preferably three, years of one foreign language. If this language is to be continued at Hamilton it is

strongly recommended that it be studied through the senior year of secondary school. Candidates who propose to participate in the cooperative engineering program (page 68) should offer strong records in mathematics and the physical sciences. Above all else, Hamilton College stresses ability and ambition to do intellectual work. The Committee on Admission will, therefore, consider the applications of able candidates who are highly recommended by their schools but whose preparation is somewhat irregular in number of units presented and subjects studied.

Examinations

Each candidate must take in December, January or March (preferably in December or January) of his senior year the Scholastic Aptitude Test of the College Entrance Examination Board. The fee is five dollars. He must also take, in December, January, or March (preferably in December), the College Board Writing Sample test, the fee for which is two dollars. Information about and applications for these tests may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey.

Interview

Since Hamilton is a small college and its members share a common life, the character and personal qualifications of students are of great importance. Every candidate must, therefore, be interviewed. For the mutual benefit of both the candidate and the College, a visit to the College, by appointment, is strongly recommended. At that time the interview requirement will normally be satisfied. Only occasionally when the candidate lives a great distance from the College may this requirement be satisfied by an off-campus interview. The candidate is responsible for making arrangements with the College for his interview.

Since it is hoped that the visit to the College will help a student to determine whether Hamilton is a wise choice for him, he should, if at all possible, visit prior to the filing of his application. It is recommended that secondary school juniors defer their visits until completion of the eleventh grade.

Early Decision

The well qualified candidate who has Hamilton as his first choice of college may ask for an early decision on his application. Since this policy has been adopted as a means of alleviating

the problem of multiple applications, a request for early decision should be made by not later than December 1st so that the candidate will know in sufficient time whether he need apply to other colleges. He may apply as early as July 1st. Regardless of the date of application he will be notified within two weeks after his application file is complete. If early admission is offered and accepted, it is understood that the candidate will not apply to other colleges, or, if he has already submitted other applications, that he will immediately withdraw them. Should he be a candidate for financial aid, action will be taken on this application at the same time as his application for admission. Early decision will be based upon: (1) the candidate's school record through the junior year; (2) the strong recommendation of his school; (3) the results of the Scholastic Aptitude Test taken in the junior year; (4) the personal interview. No candidate should request early admission unless he is absolutely certain that Hamilton is his first choice.

Admission with Advanced Placement

Entering freshmen who score satisfactorily on placement tests given by the College Entrance Examination Board may, with the approval of the department concerned and the Academic Council, be granted advanced placement, or appropriate credit, or both. Information about these tests can be obtained from the College Entrance Examination Board.

Transfer from Other Colleges

The opportunity to transfer to Hamilton is limited. An undergraduate who desires admission with transfer credit must present an official statement of honorable dismissal and of his previous work at an approved institution of collegiate rank. With the exception that transfer credit in freshman English composition must be validated by an achievement test at Hamilton, he may be granted credit for such work without examination. This official statement must include a full list of his accepted preparatory subjects, and a list of his college courses with his record therein. Such admission by transfer is ordinarily granted only when the applicant has maintained a standing in the upper half of his class. Credit is given only for courses completed with a grade of C or better. To be eligible for a degree from Hamilton, a transfer student must have completed at least two years in residence and all the requirements for graduation (pages 27-33).

REGISTRATION

Freshmen must report several days before the formal opening of college. During these days each freshman has an interview with the Dean, Associate Dean, or a counselor and takes a physical examination, aptitude and achievement tests. The information supplied by the tests is used by the Deans and by faculty counselors to help each student adjust himself to the life and work of the College.

All students must register before the opening of college. (In 1964, between September 14 and September 16.) Schedules of returning students are revised at this time, if necessary, and the schedules of new men arranged.

Expenses

HAMILTON's founders desired that no qualified student should be turned away for lack of funds. To that end, they and their successors created an endowment which—together with annual gifts—makes possible a tuition charge representing only one-third of what a student's education actually costs.

However, for many men (fully 35 per cent of those enrolled at Hamilton in an average year) even this contribution is not enough. Scholarship money, employment opportunities, or loans have been provided for those who demonstrate need for financial aid.

Clearly enough the desire remains to make Hamilton's education available to all who are found worthy. How well this desire can be realized for each applicant can only be answered on an individual basis. For information about the financial aid available to entering freshmen, see pages 17-23.

The fixed charges for a year at Hamilton to cover tuition, board, room, and the overall fee will amount to $2,500 beginning with the academic year 1964-65. (For 1963-64, the amount is $2,300. The difference between the two figures is due to a $100 per semester increase in tuition, effective in September, 1964.) On the average, a student will need approximately $400 more to cover his personal expenses, the actual amount dependent in part upon the distance between his home and the College. Below are listed the charges and the ways in which the College offers assistance in meeting them.

COLLEGE FEES

Application Fee, Deposits

APPLICATION FEE. An application fee of ten dollars (not returnable) must accompany each formal application for admission. No fee is required with the preliminary application form (the blue form facing page 32.)

REGISTRATION DEPOSIT. Those candidates who are offered admission must pay by May 1 a non-returnable deposit of fifty dollars. This fee is credited on the first semester's bill.

GUARANTEE DEPOSIT. An initial guarantee deposit of twenty-five dollars is required from each regularly enrolled student upon en-

tering college. This deposit will be held to insure final payment of minor bills. Any unused balance will be returned to the student after he leaves college.

Tuition and Other Fixed Fees for 1964-65

TUITION	per semester	$750.00*
ROOM (dormitory)	per semester	175.00
BOARD (at Commons)	per semester	275.00
OVER-ALL FEE	per semester	50.00

* During 1963-64, the tuition charge is $650 per semester.

TUITION. All undergraduates pay the basic tuition fee. For the occasional student given special permission by the faculty to carry less than the minimum full-time program of 12 hours the tuition charge will be applied at the rate of $60 per credit hour. (For 1963-64, the rate is $50 per credit hour.)

A normal academic program consists of five three or four-hour courses and a course in Public Speaking. Those who enroll in more courses pay an OVERELECTION FEE of $40 for each extra hour elected but only when the overelection is necessary to remove delinquencies. (For 1963-64, this fee is $35 for each extra hour.) A student will be considered to be removing delinquencies whenever his hours of credit are fewer than the normal total for his class. Membership in Choir is not considered an overelection.

ROOM AND BOARD. The figures given above are those for rent of a room in a college dormitory and for board at the College Commons. Rates for room and board in fraternity houses are determined by each house.

OVER-ALL FEE. The Over-All Fee covers medical services as described on page 79, and the charges for student activities, student publications, and educational equipment. It is paid by all registered students.

SPECIAL EXAMINATION FEE. A special examination fee of $60.00 is charged for each examination to earn credit for independent coverage of course work. (See page 35.)

GRADUATION FEE. A graduation fee of $10.00 is required to be paid by each senior. The charge will appear on the bill of the spring semester.

Variable Fees

In addition to the fixed fees listed above, a student may incur other charges, as a matter of choice. If he wishes to rent a music-practice room, the fee is $7.50 per seemster. For use of the Record Library, the charge is $4.00 per semester.

Social Taxes

As a service to the Social Committee of the Student Senate, the fall term bills for upperclassmen may include a ten dollar charge for the social ticket, depending upon each student's option at the time of pre-registration in the spring. All fall term bills to members of the freshman class will include the charge for the social ticket; any freshman who does not want to purchase a ticket may deduct that item from the bill. The social ticket entitles the holder to participate at the class dances, at Winter Carnival, at the jazz concerts, and at any other occasions approved by the Social Committee.

PAYMENT of TERM BILLS

The bill for the fall semester will be mailed to each student's home address before the opening of college in the fall. The bill for the spring semester will be mailed to the student's college address before the beginning of the semester. In each case, at least one-half of the bill must be paid before the student may attend his first class of the semester. The other half of the bill may be paid in equal installments by October 15 and November 15 in the fall semester and by March 15 and April 15 in the spring semester. In the case of freshmen, credit for the registration deposit will be shown on the fall bill.

Bills will be sent only to students, who will be responsible for their payment.

Any student whose bill is not paid as provided herein may be excluded from classes until the bill or installment due is paid, and further shall be subject to a five dollar service charge for each late payment.

No student whose college bills are unpaid may receive a degree or honorable dismissal, or obtain a transcript of his record.

If a student enters late, is absent under discipline, withdraws or is dropped from college, his board bill is prorated provided he takes his meals at Commons; no other rebate is granted him.

Financial Aid

SEVERAL possibilities for financial aid present themselves to the applicant for admission who finds himself unable to meet the full cost of enrollment. Many Hamilton men augment their resources through part-time employment, and a number receive financial assistance through scholarship grants. General scholarships (pages 20-21) are available to a large number of able freshmen, and many of the special scholarships (pages 21-22) are also available to first-year men provided they meet the particular requirements stipulated in each instance. Listed below are the scholarships especially reserved for freshmen. It should be noted that, in the main, these grants are awarded to candidates who have demonstrated their capacity for intellectual achievement, who have shown promise of leadership, and who have demonstrated need for financial aid. Any candidate for admission is eligible to apply for financial aid.

The appropriate application form, that of the College Scholarship Service, should be obtained at the applicant's school. The filing of this application prior to March 15, 1964, will ensure a candidate being given consideration for any scholarship, special or general, for which he may be eligible. No application, other than that of the College Scholarship Service, need be filed. For further information, candidates should write to the Secretary of Admission, Hamilton College, Clinton, New York.

FRESHMAN SCHOLARSHIPS

George F. Baker Scholarships

Established by the will of the late George F. Baker, this scholarship program makes funds available to the young men demonstrating the highest over-all promise. Any candidate for admission to Hamilton in 1964 and 1965, may apply for a Baker Scholarship. In determining the three or four annual recipients, the College will be guided by many criteria, among them the qualities of character and academic competence, acceptance by their contemporaries, and a natural talent for leadership. Winners will be selected on the basis of relative abilities, but the actual amount of the award, ranging from a few hundred dollars to total expenses for four

years, will depend upon financial need.

Scholarships Offered in Specific Areas

Two scholarships are offered each year through the College's Alumni Association on a rotating basis among several geographical areas. In 1964, these awards will be made in the Long Island and Rochester, N. Y. areas.

Illinois

Sons of secondary school teachers in the state of Illinois should note on page 20 the provisions of the scholarship made available to them.

New York

The ADIRONDACK ALUMNI SCHOLARSHIP, with a value of up to $4,000 over a four-year period, is offered to students attending schools in Clinton, Essex, Franklin, Hamilton, Saratoga, Warren and Washington Counties. Income from an endowment grant made to the College by Milton G. Tibbitts of the class of 1904 provides the funds for this scholarship. It will be available for award in 1965.

In 1964, the ALUMNI ASSOCIATION OF METROPOLITAN NEW YORK SCHOLARSHIP will be offered to students who attend schools in Queens, Nassau and Suffolk Counties. This scholarship will pay up to $6,000 over a four-year period; the exact amount will depend upon the financial need of the recipient.

In 1964, the ALUMNI SCHOLARSHIP for the ROCHESTER area, with a value of up to $6,000 over a four-year period, will be available to candidates who attend schools in Livingston, Monroe, Ontario, Orleans, Wayne and Yates Counties.

In certain years, candidates for admission are eligible to compete for the LIEUTENANT WILLARD B. EDDY, JR., MEMORIAL SCHOLARSHIP, established by Mr. and Mrs. Willard B. Eddy of Rochester, N. Y. in memory of their son. This scholarship carries a value of up to $5,200 over a four-year period and is awarded on the basis of academic achievement and character. It will be available for award in 1965.

The donor of the CHARLES MELVILLE FAY SCHOLARSHIP has specified that preference be given to students from Steuben County, New York, or from the western part of New York State.

In certain years, secondary school students from Cayuga, Cort-

land, Onondaga, Oswego, and Seneca Counties are eligible for the DAVID SHOVE HASTINGS SCHOLARSHIP, established by Mr. and Mrs. J. Murray Hastings in memory of their son. This scholarship will pay up to $4,400 over a four-year period. This scholarship will be available for award again in 1966.

The HONORABLE IRVING M. IVES SCHOLARSHIP, founded by the Norwich Pharmacal Company, is awarded in certain years with preference given, first, to the son of an employee of the company and, second, to a resident of Chenango County. This scholarship will be available in 1964.

Sons of secondary school teachers in the State of New York should note the provisions of the scholarship which has been made available to them (next page).

Certain special scholarships are reserved by the donors for graduates of specified secondary schools in New York State. The terms of the ELIZABETH R. FITCH SCHOLARSHIP stipulate that preference be given to graduates of the Westmoreland High School. The GEORGE E. DUNHAM SCHOLARSHIP is restricted to graduates of the Utica Free Academy, and the A. W. SOPER SCHOLARSHIP to graduates of the Rome Free Academy. The CHARLOTTE FOSTER BABCOCK SCHOLARSHIPS are available, first, to relatives of the donor, Edward S. Babcock of the class of 1896; second, to graduates of the public high schools in Boonville and Camden, N. Y.; and finally, to members of Emerson Literary Society.

The AUGUSTA M. LOVENGUTH MEMORIAL SCHOLARSHIP, available in 1964, is awarded with preference given, first, to a relative of the family and, second, to a student matriculating from Camden, Oneida County, New York.

STATE SCHOLARSHIPS. The University of the State of New York provides in each assembly district a liberal number of Regents College Scholarships, based upon the results of a comprehensive examination given by the State Education Department each year, and yielding from a minimum of $250 to a maximum of $700 each year, the actual amount depending upon the financial circumstances of the winner. Successful competitors may enter any approved college within the state. The New York State student will also be able to use his Scholar Incentive Award at Hamilton.

The winning of a state scholarship does not prevent a student from being granted a special or general scholarship by Hamilton College.

Ohio

The TUNNICLIFFE SCHOLARSHIPS are available, first, to students from western Ohio; and secondly, to any student who qualifies for financial aid.

Pennsylvania

Sons of secondary school teachers in the state of Pennsylvania should note the provisions of the scholarship which has been made available to them (see below).

Scholarships for Sons of Secondary School Teachers

Hamilton College awards each year three scholarships to the sons of secondary school teachers. One, with a value of up to $6,400 over a four-year period, is offered to sons of secondary school teachers in the state of Illinois. The other two carry a value of up to $6,000 and are offered in the states of New York and Pennsylvania.

GENERAL SCHOLARSHIPS

Any Hamilton undergraduate is eligible to apply for a general scholarship. However, the scholarships were established as an aid for those who find it difficult to meet the cost of a college education and should not be sought by others. These grants are supported in part by the income from the more than seventy scholarship foundations listed on pages 115-117 and in part by the general funds of the College. They are awarded on the basis of need, scholarship standing, character, and salutary influence on the life of the College. Stipends range in amount from a few hundred dollars to total expenses for four years, depending on the student's academic record and need. In accepting the assistance of a scholarship, the holder is expected to consider himself pledged to perform all of his college duties creditably, to maintain a high standard of deportment, and to exercise strict economy. The following are the procedures and regulations which govern the awarding of general scholarships.

1. Hamilton is a member of the College Scholarship Service. Each freshman candidate for scholarship aid must file his application with that organization on a form to be obtained from his school. No scholarship application other than that of the College Scholarship Service need be filed. Upperclassmen candidates for

scholarship aid will file their applications directly with the College.

2. Consideration of an application for scholarship aid cannot be given until the candidate has made application for admission to the College. The granting of admission in no way guarantees the granting of a scholarship.

3. Scholarship awards are credited against term bills, one-half in each semester.

4. A scholarship is awarded for a single semester but will automatically be renewed for the second semester of a college year if a student has a C average at the end of a semester, has no failure on his record, and has not been delinquent in attendance. After two semesters a new application must be filed.

5. Students under academic or social censure are not eligible for scholarships, and if such censure follows the granting of a scholarship, the scholarship is withdrawn.

6. No scholarship holder may maintain an automobile at the College without the express approval of the Associate Dean.

SPECIAL SCHOLARSHIPS

Hamilton College offers the following special scholarships for undergraduates who need aid and who meet the requirements set forth by the scholarship donors.

The B. T. BABBITT SCHOLARSHIP, founded by the Lillia Babbitt Hyde Foundation of New York City, is reserved for a student preparing for a medical career.

The donor of the CHARLES FOSTER BABCOCK MEMORIAL SCHOLARSHIPS has specified that preference be given, first, to relatives of the donor, Edward S. Babcock of the class of 1896; second, to candidates from the public high schools in Boonville, Camden, and Utica, N. Y.; and finally, to members of Emerson Literary Society.

The donor of the EDWARD S. BABCOCK SCHOLARSHIPS has specified that preference be given to members of Emerson Literary Society.

The GEORGE A. CLARK SCHOLARSHIP is reserved for a candidate for the Presbyterian ministry, to be designated by the pastor and session of the First Presbyterian Church of Utica, or by the College.

The DR. EDWARD R. FITCH SCHOLARSHIPS IN CLASSICAL LANGUAGES, founded by E. Root Fitch of the class of 1886, are awarded annually to students who are registered for courses in either Greek or Latin (courses in translation not included). The awards are

made on the basis of need, scholarship standing, character, and salutary influence on the life of the College.

The E. ROOT FITCH SCHOLARSHIPS, founded by E. Root Fitch of the class of 1886, are awarded annually to members of the Hamilton chapter of Delta Upsilon on the basis of need, scholastic standing, character, and salutary influence on the life of the College.

The HUGUENOT SOCIETY SCHOLARSHIP, with an annual value of $1,000, is available to a student whose ancestry meets the requirements of the Society and who satisfies the College's regular requirements for the receipt of financial aid.

The donor of the ARTHUR HUNTER SCHOLARSHIP has specified that preference be given to any matriculant from George Watson's College in Edinburgh, Scotland.

The MARCUS JUDSON SCHOLARSHIP is reserved for a student from the Presbyterian Church of Watertown, New York.

The HENRY M. LOVE SCHOLARSHIP, established by William D. Love of the class of 1909, provides a scholarship for relatives of Henry M. Love of the class of 1883, or, when no such relative is in College, may be awarded to a senior in Emerson Literary Society for graduate study leading to a career in law, medicine, journalism, teaching, or theology.

The WILLIAM DELOSS LOVE SCHOLARSHIP was established by William DeLoss Love, of the class of 1909, Mrs. William D. Scranton, and others. In accordance with the wishes of the scholarship donors, preference is given to descendants of William DeLoss Love of the class of 1843.

The terms of the ANNIE L. MAC KINNON SCHOLARSHIP stipulate that preference be given to a student whose record shows ability and interest in mathematics.

The WILLARD BOSTWICK MARSH SCHOLARSHIPS, established by Willard B. Marsh of the class of 1912 in memory of former President Melancthon Woolsey Stryker of the class of 1872, are available to juniors and seniors who are both diligent and needy and who have maintained a scholastic average of at least B since entering the College.

The S. B. STEERE SCHOLARSHIP was established for blood relations of the donor. If none appears, preference is given to candidates for the ministry.

LOANS

The THEODORE M. POMEROY LOAN FUND, established in 1916 with the purpose of "assisting worthy young men to acquire an education at Hamilton College," is now valued at about twenty-five thousand dollars. The loans are repayable by seniors within three years, interest at three per cent being computed from the time the student leaves college, and by other students before returning to college the following fall with interest at three per cent being charged from the time the loan is made.

Hamilton is a participant in the FEDERAL STUDENT LOAN FUND, established in 1958 by the National Defense Education Act. Any student interested in obtaining a loan under this act should write to the Secretary of Admission.

Loans are also available under the NEW YORK STATE HIGHER EDUCATION ASSISTANCE ACT, by which the State guarantees bank loans to undergraduates. Information about these loans is also available from the College.

STUDENT EMPLOYMENT

The College and community offer opportunities for part-time employment to more than one-third of the student body. Individual earnings range from a few dollars to several hundred, according to the kind of work done. Many of the part-time jobs are assigned by the Committee on Financial Aid to supplement scholarship awards. Other employment possibilities, chiefly odd jobs, are under the supervision of the Associate Dean. The fraternity houses on the campus provide jobs which afford board or room for five to ten men each.

2

ACADEMIC PROGRAM

Academic Requirements

Courses of Instruction

Planning for a Career

Buttrick Hall

Academic Requirements

REQUIREMENTS for GRADUATION

The basic requirement for graduation is the completion of a course of study designed to bring to the student the essential virtues of a liberal arts education. The underlying principles may be characterized as breadth, depth, and freedom. Breadth, represented by guided elective courses in six prescribed areas, introduces the student to the major fields of knowledge as represented by the traditional liberal arts philosophy. Depth, represented by concentration requirements, enables the student to acquire something of a real mastery in a specific subject. Freedom, represented by free electives, gives the student opportunities to choose courses which for any one of a number of reasons appeal to him and promise to add to his development. Throughout, the prime objective is intellectual and spiritual development.

Credit Hours Required

To QUALIFY for graduation from Hamilton College a student must have a total of 126 semester-hour credits.* He must also have completed a minimum of seventeen 6 or 8 credit year courses or the equivalent in semester courses. A semester hour usually represents one hour per week of classroom work (or from two to four hours of laboratory work) throughout half of the college year.

All courses carry certain hours of credit each semester. Most non-science courses carry three hours; laboratory courses in Anthropology, Biology, Chemistry, Geology, and Physics carry four hours, as do Psychology 11-12 and 31-32. Public Speaking courses carry one or two hours, Choir one hour.

The normal program for a freshman, sophomore, or junior consists of five three-hour or four-hour courses in addition to the required public speaking work. Any deviation from this pattern is subject to the approval of the Academic Council. A senior may

* Members of the Classes of 1964 and 1965 who satisfy the junior and senior year requirement with Public Speaking 39, 40 may graduate with 124 hours.

carry only three three-hour or four-hour courses in addition to the required work in senior study and public speaking. No student is allowed to carry a schedule of more than 21 or fewer than 12 hours without the approval of the faculty.

Basic Courses Required

To qualify for graduation, a student must satisfactorily complete the amount of work prescribed for each of six attainments essential to a liberal arts education:

I

A SUPERIOR COMMAND AND COMPREHENSION OF THE ENGLISH LANGUAGE

A. *Command and comprehension of the English language as a written medium.* Either English Composition 11-12 or English Composition 13-14 is to be taken in the freshman year.

B. *Command and comprehension of the English language as an oral medium.* Public Speaking 11-12 is to be taken in the freshman year, a 20 level course in the sophomore year. In the junior and senior years, the student takes Public Speaking 39 or 40 or an approved 20 level course, except that approved non-credit work may be substituted.

II

A REASONABLE COMMAND OF A FOREIGN LANGUAGE

The student must complete one of the following courses: French 21-22, French 23-24, German 21-22, Latin 21-22, Russian 21-22, Spanish 21-22, or a course numbered above 21-22 in Greek. Work on this objective must be begun in the freshman year and continued without interruption until completed.

III

AN UNDERSTANDING OF THE NATURE OF REASONING AND AN ACQUAINTANCE WITH THE NATURAL WORLD AS KNOWN THROUGH THE SCIENCES

The student may select one of three plans: *Plan I*—Completion of two courses from the following: Biology 11-12, Chemistry 11-12, Geology 11-12, Physics 11-12, and Psychology 11-12; *Plan II*—Completion of the 11-12 courses in Biology, Chemistry, Geology or Physics and a second course in the same science for which the introduc-

tory course is prerequisite; *Plan III*—Completion of a course acceptable under Plan II and a second course, either one in Mathemaics or Philosophy and Religion 11-12.

Either of the two courses under Plans I and III may be taken first, or they may be taken concurrently. Work under any of the plans must be begun by the end of the junior year.

IV

AN ABILITY TO ENJOY AND UNDERSTAND THE CREATIVE ARTS AND A KNOWLEDGE OF THE WORLD'S ARTISTIC MASTERPIECES

The student must complete one of the following: Art 23-24, English Literature 21-22, two term courses in Music chosen from 21, 22, 23, 24, or a year course in foreign language numbered above 29-30, exclusive of courses in foreign literature in translation. This requirement must be satisfied by the end of the junior year.

V

A KNOWLEDGE OF THE INTER-RELATION OF MAN AND SOCIETY, PAST AND PRESENT

The student must complete two courses, each from a different department. They may be selected from the following: Anthropology 11-12, 21-22, 23-24; Economics 11-12, Government 11-12, History 11-12, Ancient Civilization 21-22, Education 21-22, Psychology 21-22, 23-24. These courses may be taken in different years or concurrently. The requirement must be satisfied by the end of the junior year.

VI

AN UNDERSTANDING OF THE INTELLECTUAL BASES OF ETHICAL JUDGMENT

The student must complete Philosophy and Religion 21-22, 23-24, or 25-26 by the end of his junior year.

Area of Concentration Requirement

To qualify for graduation, students must complete prescribed study in an area of concentration. The departments under which a student may develop an area of concentration are Anthropology, Art, Biology, Chemistry, Economics, English, Literature, French, Geology, German, Government, Greek, History, Latin, Mathematics, Music, Philosophy and Religion, Physics, Psychology, and

Spanish. In addition, a concentration in Modern Languages is possible.

The normal concentration consists of four year courses and senior study within a department. The department may specify particular courses to be required. Interdepartmental concentrations involving less than four courses in any one department may be arranged with the approval of the departments concerned and the Academic Council.

The concentration in Modern Languages requires the completion of the 21-22 course in each of two modern languages and the completion of an advanced literature course in one of them.

A student selects his area of concentration at the end of his sophomore year. He must have completed at least a year course in the department in which he wishes to concentrate and must have received an average of 70 or higher for the two semesters combined.

A student who is not eligible for an area of concentration at the end of his sophomore year will be dropped from college.

The courses planned to satisfy the concentration requirement must be approved by the department at the time of election and all subsequent changes of course elections within the area of concentration require the approval of the department. Students may change areas of concentration only with the approval of the departments concerned and the Dean. Each student is required to take at least one course during his senior year in the department under which he is concentrating.

Comprehensive Examinations

To develop in its students a real sense of responsibility for their own learning is a major educational objective of the College. In all courses the encouragement of the growth of academic initiative among the students is stressed. Certain programs are designed specifically to encourage independent work among all juniors and seniors. Two of the more important are the senior comprehensive examination and senior study.

To qualify for graduation a senior is required to pass a comprehensive examination in his department of concentration. The examination includes questions derived from departmental courses, from pertinent supplementary material of related courses, and from a reasonable amount of independent reading. It is designed to test

the student's powers of synthesis and independent thought rather than his retention of detailed factual material.

The examination is given in the spring term on the Thursday and Friday of the third week preceding the beginning of final examinations. It lasts for six hours, at least four of which are devoted to written work. Such part of the other two hours as the department decides may be devoted to oral testing. The passing grade is 70. If his performance on the comprehensive examination is acceptable, the student may be excused by the department from taking final examinations in his departmental courses.

If a student fails the comprehensive examination, he will not be graduated with his class. If he meets all other requirements for graduation, he will be granted one re-examination in the comprehensive which may be taken either during the last two weeks of the following September by arrangement with the department or at the next regularly scheduled time for comprehensives. No student will be granted more than one such re-examination. A fee of $50 is charged for this second examination.

Senior Study

As a supplement to the comprehensive examination in promoting interest in and mastery of the field of concentration, the student follows a program of guided independent work beginning at the end of the sophomore year immediately after the election of the field of concentration. Under the guidance of the department, the student is encouraged to undertake independent study and reading during the summer after both sophomore and junior years and during the junior year itself.

During the senior year approximately one-fifth of the time normally directed to class attendance in courses is released for independent, although guided, study. The specific nature of this study and the technique for implementing it vary from department to department, but the common stress is on the student's responsibility to gain mastery in his major field, both in and out of course work. Throughout the study the objective is to direct the student's thinking toward an understanding of the inter-relationship among his courses in the field of concentration and in closely related courses.

Senior study is granted three hours of credit each semester. The grade earned in the comprehensive examination is recorded as the grade for senior study. Otherwise, senior study is not a "course" in

the usual sense of the word, but a program designed to encourage the student to develop academic initiative and to further his self-education.

Grade Requirement

To qualify for graduation, a student must have obtained a grade of 70 or higher in at least one-half of all the work completed at Hamilton. He must also maintain a cumulative average of at least 75 in all courses taken in his department of concentration during his junior and senior years unless the department shall recommend an exception. Such exceptions may be recommended at the end of the senior year and upon the student's total academic achievement, including that of the comprehensive examination.

All courses are graded each semester on a scale of 100. A grade of 90 or above is reported as A; 80-89, B; 70-79, C; 60-69, D; 40-59, F; and below 40, FF. The passing mark is 60. In 11-12 and 13-14 courses in German and Sapnish, and in 11-12 courses in Greek and Latin, a student who fails the first semester and, in the same year, passes the second semester, will receive a revised first semester grade of 60. If a student passes the first semester and fails the second semester, the failing grade of the second semester will be entered as the grade for both semesters.

In the 11-12 courses in English Composition and Philosophy and the 11-12 course in Psychology, a student who fails the first semester and, in the same year, passes the second semester, may, upon recommendation of the department, receive a revised first semester grade of 60. A student who passes the first semester and fails the second is not required to repeat the first semester.

With these exceptions, all final semester grades are permanently recorded and may not be altered.

To qualify for graduation, a senior must pass all courses taken in the final semester of his senior year.

Residence Requirement

To earn a degree from Hamilton a student must be in residence for at least two years (a minimum of 63 hours of credit) and must spend his final semester in residence.

Acceleration

The normal time required to complete study for the degree is

four years. For the exceptional student with proper motivation and the willingness to undertake summer study, acceleration is possible so that the degree may be obtained in three years. A student wishing to accelerate must apply to the Academic Council for permission to do so not later than the end of the first semester of his sophomore year. The Counil will consider both the advisability of acceleration and the means of achieving it. Approval will be granted only to students whose academic ability and personal maturity are adjudged satisfactory. It is a guiding principle that students with less than a B average are not eligible for acceleration.

Physical Education Requirement

To qualify for graduation a student must complete six semesters of work in Physical Education.

Chapel Attendance

Freshmen, sophomores, and juniors are required to attend public worship each Sunday evening in the Chapel. However, students who, for reasons of personal conscience, desire to attend services other than those at the College may secure permission to do so. For seniors with clear attendance records, attendance at the Chapel service is voluntary. To qualify for graduation a senior must have removed all previous delinquencies in Chapel attendance.

Suspension from College

Hamilton College reserves the right, at any time, to suspend for any period or to separate from the College any student whose academic performance or personal conduct, whether on or off the College campus, is, in the sole judgment of the College, unsatisfactory or detrimental to the best interests of the College without assigning any further reason therefor. In either event, the student's prepaid Commons board bill, if any, will be prorated, but no other rebate will be made. Neither the College, nor any of its trustees, officers, faculty or administrative staff shall be subject to any liability whatsoever on account of such suspension or separation.

FRESHMAN PROGRAM

Each freshman makes out a schedule of courses for the year in consultation with his advisor during the orientation period before

classes begin. The objective is to begin satisfaction of the breadth requirements of the curriculum at the same time that due attention is paid to the vocational and academic interests of the student. To this end the freshman academic program comprises required courses, guided electives, and possibly a free elective according to the pattern below:

Freshman Schedule

Course	Semester hours
English Composition 11-12 or 13-14 (See 1 below)	3-6
Foreign Language (See 2 below)	3
First Guided Elective (See 3 below)	3-4
Seconded Guided Elective (See 3 below)	3-4
Free Elective (See 1 and 4 below)	3-4
Public Speaking 11-12	2
Physical Education	
Total Hours	17-19*

(1) If the student is selected for English Composition 13-14, he omits the free elective.

(2) French, German, Greek, Latin, Russian or Spanish may be elected. The student is encouraged to continue a modern language studied in secondary school. Assignment to the proper level is made by the department on the basis of the previous record and a placement test.

(3) Guided electives are:

Sciences: Biology 11-12, Chemistry 11-12, Geology 11-12, Physics 11-12, Psychology 11-12

Mathematics: 11-12, 15-16

Philosophy and Religion: 11-12

Social Studies: Anthropology 11-12, Economics 11-12, Government 11-12, History 11-12.

(4) The free elective may be a second foreign language, a third course from the guided electives, or one of the following:

Ancient Civilization 11-12, Art 11-12, Music 11-12.

* In addition. approved freshmen may elect Choir one hour each term.

SOPHOMORE and UPPERCLASS PROGRAM

Each student elects courses for his sophomore, junior, and senior years so that he will satisfy the six requirements for basic liberal arts education and the concentration requirement. In addition, he

chooses free electives, usually about one-third of his total program, to complete the total number of hours required for graduation.

Cooperative Engineering Program

A student interested in the cooperative program in engineering (page 68) follows a program of studies which will (1) complete the six basic liberal arts requirements, (2) complete the total hours requirement of three years at Hamilton, and (3) satisfy the engineering school's requirements. The concentration requirement is completed at the engineering school. While the three cooperating schools—Columbia, M.I.T., and R.P.I.—have slightly different requirements for admission, their basic patterns are similar. In addition to the Hamilton requirements, they require certain courses in chemistry, physics, and mathematics. A Hamilton faculty member, liaison officer with the engineering schools, reviews the programs of pre-engineering students.

Junior Year Abroad

Qualified students may, with the approval of the faculty, spend the junior year studying in a foreign country and receive full credit toward a Hamilton degree. Those who are interested should consult the Dean during the first term of the sophomore year.

Hamilton College Junior Year in France

Hamilton College sponsors a Junior Year in France program. Enrollment in the program is limited to students who, for reasons of their preparation and interests, will benefit the most by studying French language and civilization. To qualify, students must have an over-all B average by the end of their sophomore year. The program is directed, in France, by a member of the Department of Romance Languages. Students will take a six weeks preliminary session in Biarritz in September and October, and then move to Paris for the academic year.

Independent Coverage of Course Work

In support of the belief that the undergraduate should be encouraged to assume responsibility for his own education, it is possible for an able and ambitious student to study by himself the material of a course and upon demonstrating his mastery of the subject to receive certain academic privileges. Such study is usually

done during the summer. The student must secure permission in advance to undertake this independent coverage of course work by formal petition approved by the department concerned and the Academic Council. Certification of achievement likewise requires recommendation by the department and approval by the Council.

The following academic advantages are available through this independent work.

A. Waiving of course prerequisites, thus allowing the student to move more rapidly into advanced courses.

B. Waiving of all or part of a distribution requirement, thus allowing the student to do a greater amount of advanced study or to take additional courses in other areas.

C. Attainment of hours of credit toward a degree, thus allowing the student to concentrate on fewer courses than he would normally take or to study additional courses beyond those required for graduation.

D. Attainment of hours of credit for a course failed without repeating class attendance in the course. The original failing grade, however, remains on the record.

Credit under C and D is granted only after a formal written examination administered by the department. A fee of $60, not refundable under any circumstances, is charged for the privilege of taking this examination.

Independent Study

This is a program for selected juniors and seniors who wish to carry on independent study at an advanced level. Students will be expected, in lieu of a regular course, to work steadily on a project or a reading program. Petition for admission to this program will be submitted to the Dean's Office by May 1. As a prerequisite, the student must have at least two courses in the department in which he proposes to work, and the approval of the chairman of that department. No student may pursue more than one program of Independent Study in a year.

Cooperative Program with Princeton University

Upon the recommendation of the department of concentration and with the approval of the Academic Council, Hamilton students may spend the junior year at Princeton University in the

Cooperative Undergraduate Program for Critical Languages. Upon satisfactory completion of the approved course of study, they will be granted appropriate credit toward the Hamilton degree.

Cooperative Program with Colgate University

With the approval of his department of concentration and the Academic Council, a Hamilton College student may, during the academic year, take course work at Colgate University for credit toward his degree. On a similar basis, Hamilton students have an opportunity to participate in Colgate off-campus programs such as the study groups in residence in Washington, D. C., Argentina, and the London School of Economics.

ACADEMIC REGULATIONS

Electives

Courses for the next year are chosen in the spring of the freshman, sophomore, and junior years. Elective cards must be left at the Dean's Office by a designated date in April. A fee of two dollars, increased by one dollar for each day of delay, will be charged for tardy election of courses.

After pre-registration, a student may change his choice of courses only by permission of the Academic Council and must pay a fee of two dollars. Only exceptionally is any change permitted after the first week of a semester.

Most courses are continuous through the year and must be elected accordingly.

After the freshman year, a student may take any elective course offered to his own or a lower class if he has satisfied its prerequisites, except that seniors may not elect more than one course below the 31 level without the approval of the Academic Council, and may take an 11-12 course only with the permission of the department chairman.

A student who elects an elementary course in a modern foreign language is expected to continue the second course in that language. Exceptions are made only with the consent of the chairman of the department concerned. No credit will be given for the first semester alone of any elementary language course.

Elective courses must be so chosen that the student will be making continuous progress toward the satisfaction of the requirements

for graduation. A student who after admission decides not to remain in college until graduation is not excused from compliance with this rule.

Deviations from the course programs outlined above may be permitted when an individual student can demonstrate that his interests and abilities will be better served thereby. In particular, a student who satisfies the Board of Review that he has by other means fulfilled any of these requirements may be permitted by action of the Academic Council to elect subjects other than those listed.

Summer School Credits

To insure proper supervision and validation, a student who desires to receive credit for work done in a summer school should submit his program in advance for approval by the appropriate departmental officer and the Academic Council. Only summer session courses which are passed with a grade at least one level higher than the lowest passing grade are entitled to transfer credit.

Degrees

All students receive at graduation the degree of Bachelor of Arts. Degrees in course are conferred only upon those who are present to receive them, unless the faculty has taken special action authorizing their award *in absentia.*

COURSE NUMBERING

FOR EACH COURSE, the numbering indicates its level, the semester in which it is offered and whether it is a semester or year course.

Normally, courses numbered 11-19 are taken by freshmen; 21-29, by sophomores; 31 and above, by juniors and seniors; 41 and above, by seniors only.

Odd-numbered courses are offered in the first semester and even-numbered courses in the second, except where otherwise indicated.

A single number preceding a course description (e.g., 25) indicates that the course may be elected for a single semester. Two numbers separated by a hyphen (e.g., 25-26) indicate that the course must normally be elected for the year.

ANTHROPOLOGY

Mr. Count

11-12. *Introductory Anthropology.* The origin and continuing evolution of man; the beginnings of human society; the life-ways of man. Not open to juniors and seniors except by special arrangement.

21-22. *Anthropogeography, ethnology, cultural dynamics.* Systematic cultural geography; the cultures of ethnic groups; personality and culture; dynamics of intercultural contacts. Required of all majors. Open to sophmores.

23-24. *Introductory Sociology.* The organization of society; human groups; classes and castes; urbanism. Special emphasis upon the American social system. Open to sophomores. (Not offered in 1963-64.)

31-32. *Linguistics.* The science of language. Part I: basic principles and analyses of selected non-Indoeuropean languages. Part II: Indoeuropean. Prerequisite: At least two previous courses, 37-38 excepted, or a recommendation from one of the language departments, or the Philosophy and Religion Department.

33-34. *Mythology.* Symbolisms as the products of cultures. Part I: basic concepts of the science, and primitive world-views. Part

II: the myth-traditions underlying Occidental world-views. Part III: American mythology. Prerequisite: At least two previous courses, 37-38 excepted, or a recommendation from one of the departments of language, philosophy, or history. Alternates with 31-32. (Not offered in 1963-64.)

37-38. *Physical Anthropology.* The extensive study of human evolution; the races of man; constitutional type; human growth; social biology. Three class periods and three hours of laboratory a week. Prerequisite: Biology 21-22. Alternates with 21-22. This course is acceptable for a concentration in Biology.

ART

Messrs. Parker and Penney

11-12. *Creative Painting and Drawing.* Lectures and demonstrations of the methods and materials employed by professional artists coordinated with the individual student's work. Open to approved freshmen. Credit, three hours each semester for nine studio hours. Mr. Penney.

21-22. *Advanced Painting and Drawing.* Figure, landscape, and still life painting and drawing in various media. Special projects assigned. Prerequisites, 11-12 and the instructor's consent. Credit, three hours each semester for nine studio hours. Students to supply their own materials. Mr. Penney.

23-24. *Introduction to the History of Art.* A survey of the more important monuments and periods. First semester: from prehistoric times through the Middle Ages. Second semester: from the Renaissance to the present. Open to sophomores. Mr. Parker.

31. *Modern European Art.* The leading figures and movements in European art from the eighteenth century to the present. Prerequisite, 23-24. Constitutes a year course with 32. Mr. Parker.

32. *Principles of Art.* Formal analysis of works of art, methodology of art criticism, and an examination of contemporary trends in empirical aesthetics. Prerequisite, 31. Constitutes a year course with 31. Mr. Parker.

33-34. *Renaissance Painting, Architecture, and Sculpture.* First semester: the Renaissance in Italy. Second semester: the Renaissance in Northern Europe and Spain. Prerequisite: 23-24. Students strongly advised to take History 35-36 concurrently. Alternates with 35-36. Mr. Parker.

35. *Fundamentals of Architecture.* Architectural monuments of all periods with special emphasis on structure, plans, utility, and style. Prerequisite, 23-24. Alternates with 33. Constitutes a year course with 36. (Not offered in 1963-64.)

36. *American Art.* From Colonial times to the present. Prerequisite, 23-24. Alternates with 34. Constitutes a year course with 35. (Not offered in 1963-64.)

BIOLOGY

Messrs. Rogers, Gerold, J. F. Ellis, and McManus

For a concentration in Biology, students are required to complete at least a one-year college course in Chemistry. Anthropology 37-38 is acceptable for a concentration in Biology. Except where indicated below, all courses in Biology require two hours of lecture and four hours of laboratory work each week.

11-12. *General Biology.* An introduction to the study of plant and animal life, with particular attention to the structure, functions and evolutions of organisms. Course designed to serve both as a source of general knowledge and as a background for advanced work in the biological sciences. Laboratory work based on a study of plants and animals selected to illustrate the principles involved. Three class periods and three hours of laboratory each week. Messrs. Ellis and McManus.

21. *Embryology.* A study of the development of representative forms of the chief classes of vertebrates, with particular emphasis on the embryology of the frog, chick, and mammal. Prerequisite, 11-12. Messrs. Rogers and Gerold.

22. *Zoology of Vertebrates.* The discussion and comparative study of a series of vertebrates, tracing the progressive modifications of the organ system from fishes to mammals, with special emphasis on mammalian anatomy. Prerequisite, 21. Messrs. Rogers and Gerold.

31. *Physiology.* A study of the more fundamental problems of general physiology and the functions of the organ systems of animals. Prerequisites, 21 and Chemistry 11-12. Mr. Gerold.

32. *Experimental Zoology.* Readings, conferences, and laboratory work on problems of experimental zoology. Prerequisite, 21-22. Mr. Rogers.

3. *Genetics.* A study of heredity and variation in animals and plants, including a discussion of heredity in man. General principles of evolution considered in the light of evidence from experi-

mental genetics. Lectures, laboratory, and reports on special assignments and problems. Prerequisite, 11-12. Mr. Ellis.

34. *Histology.* An analysis of the structure, function and composition of mammalian tissues. The laboratory exercises include micro-technique and tissue identification. Prerequisite, 21-22. Mr. Gerold.

36. *Microbiology.* A study of micro-organisms with special emphasis on bacteria molds and viruses. Special attention in the laboratory given to pure culture methods, physiological activities of organisms, and applied microbiology. Prerequisites, 11-12 and Chemistry 11-12. (Not offered in 1963-64.)

38. *General Ecology.* An investigation of the factors that determine the distribution and abundance of plants and animals. Prerequisite, 11-12, Mr. McManus.

It will be the policy of the department to accept for six hours of transfer credit and its equivalent of two semesters of optional Biology concentration courses the course in Invertebrate Biology offered during the summer at any approved marine biology laboratory.

CHEMISTRY

Messrs. Yourtee, Culbertson, Denney, and Cratty

Students who wish to prepare for graduate study in Chemistry are advised to elect the following courses to supplement the concentration requirements: Chemistry 37-38, 41 and 42; and course work in German. This program meets the minimum requirements of the Committee on Professional Training of the American Chemical Society.

11-12. *General Chemistry.* An introductory study of fundamental concepts and principles of chemistry, together with applications to some of the common elements and their compounds. In the second semester, the laboratory work emphasizes qualitative analysis. Entrance credit in chemistry or consent of the instructor. Chemistry 11 is a prerequisite for Chemistry 12. Three class periods and three hours of laboratory a week. Messrs. Yourtee, Denney, and Cratty.

21-22. *Analytical Chemistry.* The theory and practice of inorganic quantitative analysis. Laboratory experiments include calibration and techniques of common analytical equipment, and typical gravimetric and volumetric methods of analysis. Introductory experiments in physical chemistry supplement classroom discussion of the theoretical topics involved, such as solutions, indicators, equilibria,

electrochemistry, and the structure of matter. Two class periods and four hours of laboratory a week. Prerequisite, 11-12. Messrs. Cratty and Denney.

31-32. *Organic Chemistry.* An introduction to the chemistry of compounds of carbon. The more important groups of aliphatic and aromatic compounds; lectures and recitations, with closely coordinated laboratory work on the preparation of typical compounds. Three class periods and six hours of laboratory a week. Prerequisite, 11-12. Messrs. Culbertson and Yourtee.

33-34. *Physical Chemistry.* The theoretical background of chemistry in general, from the viewpoints of thermodynamics and kinetics. Applications developed through the solution of problems, both in the classroom and in the laboratory. Three class periods and three hours of laboratory a week. Prerequisites, 21-22, Physics 11-12, and Mathematics 25-26. Mr. Denney.

33a-34a. Same course as 33-34 but without a laboratory. Not acceptable for concentration in Chemistry. Mr. Denney.

37. *Advanced Organic Chemistry.* A study of such topics as functional groups, rearrangements, isomerism, mechanisms of reactions, organo-metallic compounds, and heterocyclic compounds. The laboratory work is devoted to advanced syntheses and techniques. The use of library sources is required. Two class periods and four hours of laboratory a week. Prerequisites, 21-22, 31-32. Mr. Culbertson.

38. *Advanced Organic Chemistry.* The application of fundamental principles, theories and techniques to the identification of organic compounds. The use of library sources is required. Two class periods and four hours of laboratory a week. Prerequisites, 21-22, 31-32. Mr. Culbertson.

41. *Advanced Inorganic Chemistry.* A study of topics selected with the purpose of emphasizing periodic relationships, atomic structures, valence, chemical bonding, intermetallic compounds and radioactivity. The preparation and purification of inorganic compounds. Two class periods and four hours of laboratory a week. Prerequisites, 21-22 and Physics 11-12. Mr. Cratty.

42. *Advanced Quantitative Analysis.* A study and application of general methods and advanced techniques of quantitative analysis. Analyses of ores and alloys are made. Instrumental methods include potentiometric titrations and colorimetry. One class period and five hours of laboratory a week. Prerequisites, 21-22 and Physics 11-12. Mr. Denney.

CLASSICAL LANGUAGES

Greek

Mr. H. S. Long

11-12. *Elementary Greek.* Thorough grounding in grammatical forms and syntax. Written and oral exercises, leading to the translation of easy passages from Plato and Herodotus.

21-22. *Intermediate Greek.* Plato's *Apology and Crito.* Selections from the lyric poets. Several books of Herodotus. Some attention given to the history of Greek literature and to prosody. Prerequisite, 11-12 or its equivalent.

31-32. *Greek Drama.* Intensive study of one play each of Euripides, Sophocles, and Aeschylus, followed by rapid reading of other tragedies. Aristophanes similarly studied. Prerequisite, 21-22. (Not offered in 1963-64.)

33-34. *Advanced Reading.* Extensive reading in prose writers and poets, according to the needs and interests of the students. Prerequisite, 21-22.

Latin

Mr. Mattingly

11-12. *Introductory Course in Latin Language and Literature.* First semester: review of forms; translation of simple prose; emphasis upon comprehension of the sentence and systematic mastery of vocabulary. Second semester: reading in such prose authors as Sallust, Pliny, Seneca; emphasis upon the student's comprehension of connected prose. Open to freshmen with secondary school preparation; without secondary school preparation, admission with consent of instructor. (Not offered in 1963-64.)

21-22. *Readings in Latin Prose Writers.* First semester: continued emphasis upon comprehension and the mastery of vocabulary; attention to the reproduction in translation of different Latin prose styles as represented by such authors as Cicero, Tacitus, Quintilian, Augustine. Second semester: continuation of the work of the preceding semester with some study of rhetorical theory and the historical background of the authors read. Prerequisite, 11-12 or superior secondary school preparation.

31-32. *Latin Poetry.* Principally satire and epigram. Translation, study of metrical forms, reading in secondary sources. Prerequisite, the instructor's consent. Alternates with 33-34. (Not offered in 1963-64.)

33-34. *Latin Poetry.* Principally lyric, elegiac, and epic. Translation, study of metrical forms, ancient literary criticism. Prerequisite, the instructor's consent. Alternates with 31-32.

Ancient Civilization

Messrs. Mattingly and H. S. Long

11-12. *Greek Literature in Translation.* Intensive study of some of the works of Homer, Herodotus, Aeschylus, Sophocles, Euripides, Thucydides, and Plato. Attention given to the history of Greek literature and to the ethical, political, and religious ideas of the Greeks. Open to freshmen and sophomores only. Mr. Long.

21-22. *Greek Historical and Political Thought.* The history of the fifth centry B.C., studied chiefly from the literary sources in translation. In the second semester, the political theories of Plato, Aristotle, and others, interpreted in the light of Greek history. Particular attention is given to the correlation between political theory and political practice, and to forms of government both as abstract entities and as ideals that govern human behavior. Open to sophomores. (Not offered in 1963-64.)

23-24. *Readings in Greek Literature and in Greek Literary Theory.* Readings and interpretation of works by Homer, Hesiod, Pindar and other lyric poets, Aristophanes, Menander, Theocritus and Apollonius Rhodius. Part of the second term devoted to a study of Aristotle's *Rhetoric* and *Poetics* and of other Greek writings concerned with literary criticism. Supplementary readings on the history of Greek literature and on general literary theory. Prerequisite, 11-12, or English Composition 13-14. Mr. Long.

33-34. *Roman Social, Political, and Legal Institutions.* Roman history from the regal period to the late Empire, with emphasis upon social, political and legal institutions. Textbooks and readings in translation. Open to sophomores. (Not offered in 1963-64.)

35-36. *Classical Mythology and Aesthetic Theory in the Renaissance.* A survey of changing patterns of interest in the stories of ancient gods and heroes exhibited in the fine arts in general and especially in the vernacular writings of European national cultures, read in translation. Attention to the theories of art and literature as reflecting the opinions of Aristotle, Cicero, Horace, Quintilian, etc. Primarily for majors in English and the modern foreign languages. Mr. Mattingly.

COMPARATIVE LITERATURE

Mr. Colby

31-32. *European Humanism.* A study of the development of humanistic thought from early modern times to the present, based on great works of European literature read in translation. Open to juniors and seniors who have completed the Point IV requirement by courses in literature. Mr. Colby.

ECONOMICS

Messrs. Gambs, Wertimer, Komisar, and Carovano

11-12. *Introduction to Economics.* First semester: a study of the organization of unplanned economies and of major theories seeking to explain their functioning. Second semester: a discussion of the economic problems facing a modern industrialized society. The Department.

21. *Industrial Relations.* A study of social and economic problems centering on American labor and the employer-employee relationship; collective bargaining; the labor market; wage theory and public policy; labor-relations legislation; a brief history of unionism; the role of trade unionism in a democracy. Prerequisite, 11-12. Mr. Gambs.

22. *The Role of Government in Economic Affairs.* A brief history and survey of governmental control of economic activity; detailed study of several areas of intervention; an attempt to evaluate the proper functions of government in a free economy. Prerequisite, 11-12. Mr. Gambs.

24. *Comparative Economic Systems.* A comparison of the principal types of economic systems with particular reference to American capitalism, the Soviet system, and liberal-democratic socialism. Prerequisite 11-12 or the consent of the instructor. Mr. Carovano.

25. *Accounting.* An elementary study of how the financial records of a business firm are usefully classified, analyzed, and interpreted. Emphasis is placed on the theory and function of accounting with bookkeeping techniques introduced as a means to this end. Mr. Wertimer.

26. *Corporation Finance.* Forms of business organization with predominant emphasis on the modern corporation, its nature and financial problems. Mr. Wertimer.

29. *Applied Statistics.* The interpretation of economics data through the use of elementary statistical methods and concepts; measure of central tendency and of variation; time series and seasonal fluctuations; the business cycle and attempts to predict its course; index numbers of prices and productivity; sampling; correlation; a survey and evaluation of the large figures of the economy, such as the standard measures of national income, unemployment, changes in consumers' prices and in factor productivity, economic growth; the elements of graphic presentation. Open to sophomores. Mr. Carovano.

31. *International Economics.* The relation of international trade to the national income, economic welfare and rate of growth of the world's trading nations. The structure of world trade. Current issues of commercial policy. International monetary problems. International economic cooperation. United States international economic policy. Prerequisite, 11-12. Mr. Komisar.

32. *Economic Development.* Problems facing economically underdeveloped countries as they attempt to stimulate rapid economic expansion. A theoretical analysis of economic development. Case studies of selected countries. The impact of world economic development on the United States. The contribution of the more highly developed nations towards the growth of underdeveloped countries. Prerequisite, 11-12. Mr. Komisar.

33-34. *Intermediate Economic Theory.* First semester: applications of supply and demand analysis; the theory of the firm; the theory of consumer behavior; perfect *vs.* imperfect competition; the theory of economic welfare. Second semester: measuring national income and production; the theory of income determination; the requirements for sustained economic growth; business cycle theory. Prerequisite, 11-12. Mr. Komisar.

37-38. *Money, Banking, and Public Finance.* First semester: the monetary aspects of the modern economy, with special reference to the organization of banking in the United States and to the theory of money. Second semester: a study of the principles and practices involved in taxation, public-debt management, and other financial problems of our federal and local governments. Prerequisite, 11-12. Open to juniors. Messrs. Wertimer and Carovano

41-42. *Seminar in Economics.* First semester: a review of economic theory from the time of the mercantilists to the present. Second semester: discussion of two or three major contemporary issues in

the field of economics. Open to seniors and selected juniors who have had at least two previous courses in economics, one of which must be 11-12. Mr. Gambs.

EDUCATION

Mr. Skillman

21-22. *History, Philosophy, and Principles of Education.* A historical and comparative study of the major tendencies and characteristics of society in western nations as they affect education and are affected by educational ideals and the structure of educational systems, with special emphasis upon problems of education in a free society. Contemporary controversial issues examined as well as special problems of secondary and junior high school education, during the second semester. Open to sophomores.

31. *Educational Psychology.* The phychological basis of educational theory and practice; the study of the psychology of adolescense, with special emphasis on the learning problems of adolescents in school; the theory of educational measurements and evaluation; elementary statistical methods. Prerequisite, 21-22 or the instructor's consent.

32. *Special Methods.* Intensive study by each member of the class of the problems in teaching his particular subject at the secondary level. Practice given in course, unit, and lesson-planning. Classroom leadership, motivation, testing, discipline, teacher-pupil relations, materials of instruction. Prerequisite, the instructor's consent.

33-34. *Observation and Student Teaching: Secondary School Methods and Materials.* A detailed study of general secondary school methods, materials, and classroom techniques. Each student assumes responsibility for teaching a minimum of eighty class periods in selected local secondary schools under supervision of a cooperating teacher. Regular conferences with the instructor and other student-teachers. A comprehensive written account by each student of his experiences in teaching is required at the end of the year. Admissiion to the course is selective. Prerequisite, 21-22, 31-32.

Preparation for Teaching. Undergraduates who expect to become teachers should discuss their plans with the department as early as possible in their college career, in order that they may be guided in selecting those courses that will best prepare them to meet the requirements of their prospective profession. (The above courses

are designed for students who wish to satisfy the professional requirements for the provisional certificate set by the State of New York. These courses satisfy the requirements in almost all states.)

ENGLISH

Messrs. Nesbitt, Johnston, Lindley, Barrett, Morey, Briggs, Nassar, Pierson, and Fazio

English Composition

Only one course in English Composition may be taken in any one year.

11-12. *Freshman English Composition.* The principles of English composition and the practice of writing. Themes and conferences; readings in selected masterpieces. Instruction in writing, largely individual. Either 11-12 or 13-14 required of all freshmen. The Department.

13-14. *Seminar in Reading, Writing, and Speaking.* The intensive study of selections from such classics of literature and philosophy as Homer, the Bible, Shakespeare, Milton, Plato, and Mill. Writing and group discussion based on this reading. Sections limited to twelve freshmen each. Course may be substituted for English Composition 11-12 and one elective. Credit, twelve semester hours. Messrs. Nesbitt and Pierson.

31-32. *Expository Writing.* The theory of exposition; constant practice in writing clear and logical expository prose. Study of selected specimens of exposition. Prerequisite, 11-12 or 13-14. Open to juniors. Enrollment limited. Messrs. Nesbitt and Lindley.

33-34. *Fiction and Poetry.* Study and practice of literary composition. Stories, plays, and poems by members of the class to be submitted at regular intervals and criticized by the whole group and the instructor. Recent poetry, short stories, and novellas assigned for close analysis. Open to juniors. Limited to fifteen. Offered in alternate years. (Not offered in 1963-64.)

English Literature

21-22. *Introduction to English Literature.* Study and anlysis of selected works of major writers in chronological order from the Middle Ages to the present. Prerequisite, English Composition 11-12 or 13-14. The Department.

31-32. *American Literature.* A close study of principal works in the prose and poetry of the United States from 1830 to the present. Prerequisite, 21-22. Mr. Morey.

33-34. *The Literature of the English Renaissance Through Milton.* The growth of Christian Humanism as reflected in the work of major Renaissance writers, particularly Spenser, Bacon, and Milton. Other authors of the period, such as Marlowe, Donne, Jonson, and Hobbes, as well as minor writers within and without the tradition. The place and influence of the classics in the Renaissance. Prerequisite, 21-22. Mr. Fazio.

35-36. *The Literature of the Neo-Classic Period:* 1660-1800. The rise of neo-classicism in England and its influence on imaginative literature and criticism from Dryden to Blake. The development of modern prose style, the rise of the periodical essay, and the eighteenth-century novel. The beginnings of romanticism. Prerequisite, 21-22. Mr. Johnston.

37-38. *Nineteenth Century Literature.* Study of works representative of the thought and literary art of major nineteenth-century writers, particularly Jane Austen, Wordsworth, Shelley, Carlyle, Dickens, Browning, Arnold, and George Eliot. Prerequisite, 21-22. Mr. Nesbitt.

39-40. *Modern British Literature.* Readings in English and Irish literature from the turn of the century to the present, with particular attention to works of Shaw, Yeats, Conrad, Joyce, Lawrence, and T. S. Eliot. Prerequisite, 21-22. Mr. Briggs.

41-42. *Anglo-Saxon; Middle English.* First semester: an introduction to the language and literature of England before the Norman Conquest. Study based on an Anglo-Saxon reader, accompanied by lectures on the history, structure, and vocabulary of the English language. Second semester: Chaucer, his century, and his contemporaries. Reading of *The Canterbury Tales, Troilus and Criseyde,* and some minor poems. Open to juniors. Offered in alternate years. Mr. Lindley.

43-44. *Elizabethan and Jacobean Drama.* Readings in English plays from the beginnings to the closing of the theatres in 1642, with particular attention to Shakespeare. Prerequisite, 21-22. Mr. Barrett.

FRENCH. See Romance Languages, pages 65-68.

GEOLOGY

Messrs. Hawley and Potter

As a prerequisite for senior study, and thus for a concentration in Geology, the student is required to have taken, or to be taking, concurrently, a year course in each of the two different departments, chosen from Biology, Chemistry, Mathematics, and Physics.

11-12. *General Geology.* An introductory course. First semester: the composition and structure of the earth's crust, the interior of the earth, and the processes that shape the earth's surface. Second semester: the history of the earth and its life as interpreted from the rocks of the crust and the fossils they contain. Three class periods and three hours of laboratory or field exercises each week. One all-day field trip each semester. The Department.

21. *Geology of North America.* A systematic study of the continent emphasizing location, description, age and origin of major geologic elements, giving an integrated picture of broad structures, basins of sedimentation, metamorphic belts, batholiths, volcanic fields and physiographic provinces. Three class periods and three hours of laboratory or field exercise each week, and at least one extended field trip. Prerequisite, 11-12. Mr. Hawley.

22. *Economic Geology.* A study of the geologic occurrence, origin, and distribution of the major metallic and non-metallic ores and fuels (coal, oil, gas, uranium). Economic factors pertinent to the mining and processing of ores. Three class periods and three hours of laboratory each week. One two-day and two afternoon trips to mines, requiring reports. Prerequisite, 11-12. Alternates with 28. (Not offered in 1963-64.)

23-24. *Structural and Field Geology.* A study of primary and tectonic rock structures, and the principles of deformation of the earth's crust. Study of field methods and their application in geologic surveying. Three class periods and three hours of laboratory or field exercises each week, plus at least two weekend field trips. Prerequisite, 11-12. (Not offered in 1963-64.)

25-26. *Mineralogy-Optical Mineralogy.* Introduction to crystallography, crystal chemistry, optical mineralogy, and the occurrence and origin of minerals. Identification of minerals by physical, chemical, X-ray diffraction, and polarizing microscope techniques. Three class periods and three hours of laboratory each week. One weekend field trip. Prerequisite, 11-12. Previous or concurrent elec-

tion of Chemistry 11-12 recommended. Alternates with 31-32. (Not offered in 1963-64.)

28. *Glacial Geology.* Theories of glacial climates, origin and movement of glaciers, glacial erosion and deposition. Three class periods and three hours of laboratory or local field study each week. Prerequisite, 11-12. Alternates with 22. Mr. Potter.

31-32. *Petrology.* A study of the chemistry, mineralogy, and genesis of igneous, metamorphic, and sedimentary rocks in the light of experimental data and field relations. Three class periods and three hours of laboratory (hand specimen and microscopic study) or field exercises each week. One weekend field trip each semester. Prerequisite, 25-26. Mr. Potter.

33-34. *Advanced Historical Geology.* A study of invertebrate paleontology and the principles of stratigraphy. Autumn: description, interpretation, and correlation of sedimentary rocks. Winter: classification, evolution, and history of invertebrate fossils. Spring: regional interpretation of geologic history based upon sedimentary rocks and their fossils. Three class periods and three hours of laboratory or field exercises each week. One weekend field trip each semester. Prerequisite, 11-12. Alternates with 23-24. Mr. Hawley.

GERMAN

Messrs. Liedke, Browning, and Colby

11-12. *Elementary German.* Thorough grounding in pronunciation, grammatical forms, and syntax in coordination with the reading and discussion in German of easy texts. Freshmen granted credit for 11-12 only upon completion of German 13-14. Others granted credit for German 11-12 without completing German 13-14 only upon recommendation by the head of the department. Credit, three hours each semester. Mr. Browning.

13-14. *Intermediate German.* Review of grammar and syntax; oral and written drill on vocabulary and idioms; reading and discussion in German of prose texts. Prerequisite, 11-12 or a minimum of two units of entrance German. Mr. Liedke.

21-22. *Introduction to German Literature.* The reading and study of German prose and verse of the nineteenth and twentieth centuries; outside reading and written reports. Conducted principally in German. Prerequisite, 13-14. Messrs. Liedke and Colby.

29-30. *Composition and Oral Practice.* This course offers practice

in speaking and comprehending German on a conversational level and also aims at increasing the student's facility in expressing himself in writing. Prerequisite, instructor's consent. Mr. Browning.

31-32. *Modern German Poetry and Prose.* Text exegesis, oral and written reports, and essays; outside reading in prose and verse. Prerequisite, 21-22. Mr. Colby.

33-34. *German Drama.* Brief introductory survey of the history of German drama; critical study and interpretation, and conversational discussion in German, of the dramas of Lessing, Goethe, Schiller, and representative nineteenth century and contemporary dramatists; written reports and essays. Prerequisite, 21-22 or 31-32 or a grade of B in 13-14. (Not offered in 1963-64.)

35-36. *The Works of Goethe.* Critical study and interpretation of a selection of Goethe's works. Major attention paid to the study of *Faust.* Outside reading and essays required. Conducted principally in German. Prerequisite, 21-22. Alternates with 33-34. Mr. Colby.

GOVERNMENT

Messrs. Rockwell, Desai, Birns, and Zuckerbraun

11-12. *Introduction to the Study of Government and Politics.* A survey of the process of government; the foundation of politics, including the cultural, philosophical, legal, and economic influences on governmental structure and operation, with emphasis on American government. The Department.

21-22. *International Relations.* An introduction to world politics. First semester: the basic elements of the power conflicts of the twentieth century; total and limited war; diplomacy; nationalism; the United Nations; the politics of underdeveloped nations. Second semester: case studies of significant regional problems with government documents. Prerequisite, 11-12. Mr. Birns.

23-24. *Parties, Interest Groups, and the Political Process.* A study of the American political process in terms of political party and interest group organization, composition, and technique. Emphasis is placed upon the demographic, historical-institutional, and theoretical influences on the political behavior of the individual and groups. Prerequisite, 11-12 or the instructor's consent. Mr. Zuckerbraun.

25. *Comparative Government and Politics.* A comparative analysis of the governmental systems, political parties, and policy proc-

esses of India, Great Britain, Switzerland, the U.S.A., Canada, and the U.S.S.R. Prerequisite, 11-12 or History 11-12. Mr. Desai.

27. *The Government and Politics of India.* A study of the political institutions, politics, and historical background of modern India. Prerequisite, 11-12 or History 11-12. Mr. Desai.

31. *Africa.* An area study of the emerging nations south of the Sahara. Emphasis on African nationalism, racial and colonial policies, European and United Nations interest, and problems of political stability. Individual research. Prerequisite, instructor's consent. Enrollment limited. Alternates with 35. (Not offered in 1963-64.)

32. *American Foreign Policy.* After a survey of the historical background of American diplomacy, the course analyzes the decision-making roles played by the President, Congress, Department of State, Foreign Service, the military, and pressure groups. Preparation of policy position papers on such issues as technical assistance and overseas information programs, control of arms, Russia, and specific problem areas. Prerequisite, 11-12 or 21-22. Open to juniors. Mr. Birns.

33-34. *American Constitutional Development.* The development of the Constitution through judicial interpretation. The Supreme Court and public policy. Emphasis on the political, social, and economic context of judicial review; philosophies of individual justices; evolution of major features of modern constitutional law; the function of the Supreme Court. Prerequisite, 11-12 or History 21-22, or the instructor's consent. Open to juniors. Mr. Rockwell.

35. *The Middle East.* A regional study of the Middle East with emphasis on strategic, economic, political, and social factors. The impact of the West upon the Arab and non-Arab world. The role of Islam, Arab nationalism, and oil. The conflict of great power interests. Presentation and discussion of case studies. Prerequisite, instructor's consent. Enrollment limited. Alternates with 31. (Not offered in 1963-64.)

35a. *Latin America.* A survey of forces presently at work in Latin America contrasted with traditional political dynamics of this region. Emphasis on nationalism, problems of economic development, U.N. and U.S. relations. Open to juniors. Mr. Birns.

37-38. *American Political Institutions.* A critical analysis of myth and reality of the institutional forms in American government. Special attention, through case studies and extended discussion, is

given to the forces which cause continuous change and readjustment of such institutions as the separation of powers, federalism, and representative government. Prerequisite, 11-12 and the instructor's consent. Mr. Zuckerbraun.

43. *Political Theory.* Main themes in western political theory from Plato to the present. Democratic and totalitarian theories of recent times: conservatism, liberalism, socialism, communism, and fascism. Open to juniors. Mr. Rockwell.

44. *Law, Society and Contemporary Problems of Political Theory.* The nature and evolution of law as a means of social control. Discussion of contemporary notions of great questions of political and legal theory, justice, freedom, power, community. Open to juniors. Mr. Rockwell.

Washington Field Trip. During the first week of the spring term, the Department of Government conducts a field trip to Washington, D. C., for intensive study of national government and politics through interviews with officials of Congress, the executive branch, interest groups, and with leading members of the press. Participation is limited to fifteen juniors and seniors who are admitted on the basis of academic standing and interest *and with the approval of the Academic Council.* Participants need not be government majors. No credit is offered for the trip. Expenses are borne by the student. The trip is announced and arranged by the Department during December and January.

GREEK. See Classical Languages, page 44.

HISTORY

Messrs. E. B. Graves, D. M. Ellis, Adler, Chu, and Millar

11-12. *The Historical Background of Modern Society.* An introduction to the historical development during the past four centuries of significant political, economic, and social forces which are molding modern European and American society. The Department.

21-22. *American Diplomatic History.* A systematic survey of economic, geographic, political, and emotional factors which have influenced the development of American diplomacy. Emphasis is laid on the period prior to 1933. Prerequisite, 11-12 or Government 11-12. Mr. Millar.

23-24. *England and the British Empire.* A historical study of the

development of British institutions and their spread to other parts of the world, with particular attention to economic and social changes in Great Britain and in the British Commonwealth and Empire. Prerequisite, 11-12. Mr. Graves.

25-26. *Asian History.* The historical development of various civilizations from India to Japan. Prerequisite, 11-12 or the consent of the department. Mr. Chu.

27-28. *History of Russia.* A survey of the development of Russia from its beginning to the present. Prerequisite, 11-12, Mr. Adler.

29. *United States History, 1898-1933.* A study of the responses to change made by Americans during the first third of the 20th century. The course will examine the interrelations among politics, business, social activities, popular culture, and foreign affairs. Prerequisite, 11-12, or the consent of the instructor. Mr. Ellis.

30. *United States History, 1933 to the present.* An examination of recent American life during the depression, World War II, and the Cold War. Prerequisite, 11-12, or the consent of the instructor. Mr. Ellis.

31-32. *Problems in American History.* An analysis of some significant problems in the history of the United States. Prerequisite, two semester courses in American history at the 20 level or higher. Mr. Millar.

33. *Economic and Social History of the United States prior to the Civil War.* Prerequisite, 11-12 and one additional semester course in History. Mr. Ellis.

34. *Economic and Social History of the United States since the Civil War.* Prerequisite, 11-12 and one additional semester course in History. Mr. Ellis.

35. *European Civilization from the 11th to the 14th Century.* A survey of developments in politics, thought and art from 1000 to 1321. Prerequisite, 11-12 and one additional semester course in History. Mr. Graves.

36. *European Civilization from the 14th to the 16th Century.* A continuation of History 35 from 1321 to 1530. Prerequisite, 35. Mr. Graves.

37. *History of Modern Japan.* The modernization of Japanese society and its subsequent domestic and international development. Prerequisite, 25-26. Mr. Chu.

38. *History of Modern China.* Changes in China's domestic and international situations since the early 19th century; the effects

of internal revolution and external pressures on China's traditional civilization. Prerequisite, 25-26. Mr. Chu.

42. *Topics and Problems in the Diplomatic History of Europe 1870-1939.* A study of particular crises from documentary sources. A reading knowledge of either French or German, although not required, is desirable. Open to juniors. Prerequisite, any two courses in History. Mr. Adler.

43. *Social History of Europe since 1789.* An examination of the interrelation of ideological and social movements and the emergence of democracy in Europe in the 19th and 20th centuries. Emphasis on reform and revolution in France, the Germanies, and Russia; and on the rivalry of nationalism and socialism for popular allegiance. Open to juniors. Prerequisite, any two courses in History. Mr. Adler.

45. *American Intellectual History from Colonial Times to the Civil War.* The impact of ideas and ideals on American society. Prerequisites, any two semester-courses in American History. Mr. Millar.

46. *American Intellectual History from the Civil War to the Present.* A continuation of History 45. Prerequisite, 45. Mr. Millar.

LATIN. See Classical Languages, page 44.

MATHEMATICS

Messrs. Gere, Ogilvy, Adkins, and T. Graves

11-12. *Introductory College Mathematics.* A survey of mathematical concepts. The following topics are studied: logic, set theory, probability, algebraic systems including matrices, functions and relations, an introduction to the calculus. The course is designed for those desiring one year of college mathematics or needing a stronger background to continue with analytic geometry and calculus. A student may enter at the beginning of the second semester with permission of the department. Mr. Adkins.

15-16. *Analytic Geometry and Elements of the Calculus.* Topics from plane analytic geometry, including the straight line, circle, conics, and polar coordinates, and an introduction to the differential and integral calculus, with applications to algebra, geometry, and mechanics. Prerequisite, 11-12, or four years of secondary school mathematics, including plane trigonometry. The Department.

25-26. *Calculus and Differential Equations.* Further study of the

differential and integral calculus, including analytic geometry of three dimensions. The solution of ordinary differential equations, with applications. Prerequisite, 15-16. Messrs. Gere and Ogilvy.

31-32. *Advanced Calculus.* Topics from the calculus including partial differentiation and implicit functions, surface integrals, contour integration, improper integrals, series expansions, vector analysis. Prerequisite, 25-26. Mr. Ogilvy.

33-34. *Probability and Statistics.* An introduction to the mathematical theory of probability and to statistical concepts. Topics studied include distribution functions, sampling theory, statistical inference, tests of hypotheses, statistical estimation, least squares, correlation, analysis of variance. Prerequisite, 15-16. Offered in alternate years. Mr. Gere.

35. *Numerical Analysis.* Finite differences, interpolation, numerical integration and differentiation, numerical solution of differential equations, iterative methods for solving systems of simultaneous linear equations. Prerequisite, 25-26, or 27-28 and approval of the department. Offered in alternate years. (Not offered in 1963-64.)

36. *Mathematics for Digital Computers.* Preparation of problems for high speed digital computers, programming and coding techniques. Each student will work with an electronic computer for practical experience in machine computation. The facilities of the Computation Center of Syracuse University are available for this purpose and the student must make arrangements for attending weekly sessions at Syracuse. Prerequisite, 35 and approval of the department. Offered in alternate years. (Not offered in 1963-64.)

37-38. *Introduction to the Theory of Functions.* An introduction to the theory of functions of real and complex variables through the critical study of a limited number of topics such as limit theorems, continuity, Jacobians, integration, properties of sets of points. Prerequisite, previous or concurrent election of 31-32. Offered in alternate years. Mr. Graves.

39-40. *Introduction to Modern Algebra.* An introduction to abstract algebraic operations, groups, rings, fields, integral domains, polynominals, matrices, and determinants. Prerequisite, 25-26. Mr. Graves.

45-46. *Seminar.* Topics selected from the various fields of mathematics according to the individual needs of those electing the course. Prerequisites, previous or concurrent election of 31-32 and approval of the department.

MUSIC

Messrs. Baldwin and Bonta

11-12. *Introduction to Music.* First semester: study of musical materials, including ear-training and sight-singing. No previous knowledge of music is necessary. Second semester: survey of western music from Gregorian Chant to the present through a study of selected works by major composers. Open to freshmen. Mr. Bonta.

21. *Medieval and Renaissance Music.* Study of the history and literature of music to 1600, including selected works by such major composers as Perotin, Machaut, Landini. Dunstable, Dufay, Ockeghem, Josquin, Lassus, Byrd and Palestrina. Prerequisite, 11-12. Offered in alternate years. Mr. Bonta.

22. *Music of the Baroque Era.* Study of the history and literature of music from 1580 to 1750, including selected works by such major composers as Gabrieli, Monteverdi, Frescobaldi, Scarlatti, Schutz, Couperin, Rameau, Handel, and Bach. Prerequisite, 11-12. Offered in alternate years. Mr. Bonta.

23. *Music of the Classic and Romantic Periods,* Study of the history and literature of music from 1720 to 1900, including selected works by such major composers as Gluck, Haydn, Mozart, Beethoven, Schubert, Schumann, Chopin, Berlioz, Liszt, Wagner, Bruckner, Verdi, Brahms, and Mahler. Prerequisite, 11-12. Offered in alternate years. (Not offered in 1963-64.)

24. *Contemporary Music.* Study of the history and literature of music from 1875 to the present, including selected works by such major composers as Mussorgsky, Debussy, Ravel, Stravinsky, Prokoffiev, Schoenberg, Berg, Webern, Hindemith and Bartok. Prerequisite, 11-12. Offered in alternate years. (Not offered in 1963-64.)

25-26. *Harmony.* The study of notation, sight-singing, and ear-training as they relate to the introduction to harmony. In the second semester there is some creative writing in the smaller forms. Prerequisite, 11-12. Mr. Baldwin.

31-32. *Counterpoint.* A study of 16th Century methods and the use of polyphonic procedures in composition. Prerequisite, Music 25-26. Mr. Baldwin.

33-34. *Seminar in Advanced Studies.* Individual projects in advanced composition or musicology. Prerequisites, any two term courses of Music 21-24 and Music 25-26, and for advanced composition, Music 31-32. Mr. Baldwin and Mr. Bonta.

Choir. Those taking this course constitute the Hamilton College Choir. Membership in the Choir is open to all approved undergraduates in regular standing. Rehearsals are held three hours a week throughout the year; Choir membership carries one credit hour each semester. Mr. Baldwin.

Individual Instruction. For those desiring individual instruction in instrumental or vocal music, teachers are available. Practice rooms equipped with upright and grand pianos are maintained by the College and may be rented for one hour daily at fifteen dollars for the College year. One electronic organ, a three manual pipe organ, and a one manual *Positif* organ are available for student practice at the same fee.

PHILOSOPHY and RELIGION

Messrs. McEwen, Miller, Sharma, Blackwood, Williams, Lange, and Herman

11-12. *Semantics, Logic, and Scientific Method.* A study of meaning, the uses of language, formal logic, and scientific method. Students in this course use specially prepared self-instructional materials. Open to freshmen. Messrs. Lange and Herman.

21-22. *The History of Philosophy.* A study of the philosophical classics of western civilization. Consideration of the most important contributions of outstanding thinkers from early Greek times to the present. Open to sophomores. Messrs. Blackwood and Lange.

23-34. *Introduction to the Bible.* The history, literature, and religion of the Old and New Testaments. Open to sophomores. Messrs. Miller and Williams.

25-26. *A History of Western Religious Thought.* A survey of the history of religious thought in the West from post-apostolic times until the present. The role which religion has played in cultural, scientific, and philosophical developments. Open to sophomores. Messrs. Miller and Williams.

31. *Religions of the Mediterranean Area.* Theories of the nature of religion; religion in non-literate cultures; classical religions of the Mediterranean area; Islam. Prerequisite, 21-22, 23-24, or 25-26. Mr. Blackwood.

32. *Religions of the Far East.* Hinduism, Taoism, Confusianism, Theravada and Mahayana Buddhism. Prerequisite, 21-22, 23-24, or 25-26. Mr. Blackwood.

33. *American Philosophy.* A survey of the principal men and movements in American philosophy. Prerequisite, 21-22, 23-24, or 25-26. Mr. Lange.

34. *Contemporary Philosophy.* A survey of the important developments in contemporary philosophy. Prerequisite, 21-22, or consent of the instructor. Mr. Lange.

35-36. *The Christian View of God and Man.* A study of the Christian doctrine of God, of man, and man's duty as this is expressed in the traditions of the Christian Church and the ecumenical creeds of Christendom. Prerequisite, 21-22, 23-24, or 25-26. Mr. Miller.

37. *Ethical Theory.* A critical survey of main problems in ethics and metaethics with primary emphasis on the contemporary period. Prerequisite, 21-22, 23-24, or 25-26. Mr. Herman.

38. *Social Philosophy.* A study of some of the representative philosophies of society and history. Prerequisite, 21-22, 23-24, or 25-26. Mr. Lange.

39-40. *Contemporary Theology.* An intensive study of selected major theological works of the twentieth century. Prerequisite, 21-22, 23-24, or 25-26. Mr. Williams.

41-42. *Seminar in Philosophy.* A systematic analysis of some signifiant problems in philosophy or religion. Open to seniors. Prerequisite, 21-22, 23-24, or 25-26, and one other course in the Department, or the instructor's consent. Enrollment limited. Mr. Blackwood.

43-44. *Special Topics.* An intensive study of the major systems of Indian philosophy. Prerequisite, 21-22, 23-24, or 25-26. Mr. Sharma.

PHYSICAL EDUCATION

Messrs. Weber, Jones, Batt, E. M. Long, Patrick, von Schiller, and Larson

During their first three years in residence, all students participate in the program for individual development. This program is based on the theory that it is as important to develop a good physique and a love of sport in the average man as it is to provide scope for the brilliant athlete.

All students are tested at the beginning of their college course to discover their individual needs. Four tests are given to men who qualify in the medical examination: (1) physical fitness, (2) swim-

ming, (3) skill in one outdoor carry-over sport, (4) skill in one indoor carry-over sport. The type of program pursued by each student is detemined by his performance in these tests.

Men with organic defects or functional disabilities enter an individual program approved by the college physician.

Facilities and instruction are provided for the following sports: badminton, baseball, basketball, boxing, football, golf, handball, hockey, skating, skiing, soccer, squash, swimming, tennis, touch football, track, volleyball, and wrestling.

PHYSICS

Messrs. Cameron, Ring, Heybey, and Kang

11-12. *General Physics.* Selected topics from classical and modern physics. Three class periods and three hours of laboratory each week. Open to freshmen. The Department.

23-24. *Electronics: Electricity and Magnetism.* Vacuum tube principles and circuitry, primarily as a basis for understanding electronic applications in laboratory instruments. Principles of electrostatics, electrodynamics, direct and alternating current circuits, and an introduction to electromagnetic field theory. Prerequisite, 11-12, and Mathematics 15-16. Three class hours and three hours of laboratory each week. Mr. Cameron.

31-32. *Mechanics.* The statics and dynamics of particles, systems of particles and rigid bodies with applications to periodic motions, fluid dynamics and wave motion. Introduction to advanced dynamics including generalized coordinates, Lagrante's and Hamilton's equations with applications. Prerequisites, 11-12 and Mathematics 25-26. Three class periods each week. Mr. Kang.

33. *Thermodynamics.* The First and Second Laws of Thermodynamics, entropy, thermodynamic functions, with some applications to physics and engineering followed by an introduction to the kinetic theory of gases and to classical (Maxwell-Boltzmann) statistical mechanics. Prerequisites, 11-12 and Mathematics 25-26. Three class periods each week. Mr. Heybey.

34. *Physical Optics.* The principal phenomena of light which can be interpreted by the classical wave theory—interference, Fraunhofer and Fresnel diffraction, disperson and polarization. Prerequisites, 23-24 and Mathematics 25-26. Two class periods and six hours of laboratory each week. Mr. Cameron.

41-42. *Atomic and Nuclear Physics.* Introduction to non-relativistic quantum mechanics; atomic structure and spectroscopy; nuclear structure, nuclear reactions, radioactivity and elementary particles. Prerequisites, 23-24, 31-32 and Mathematics 25-26. Three class hours and three hours of laboratory each week. Mr. Ring.

PSYCHOLOGY

Messrs. Godcharles and Lundin

11-12. *Principles of Psychology.* An introduction to the objective analysis of behavior. Three hours of lectures, demonstrations, and discussion, and three hours of laboratory weekly throughout the year. Open to freshmen. The Department.

23-24. *Social Behavior and Personality.* The social bases of human behavior and their influence on the development of personalities. Open to sophomores. Mr. Lundin.

31-32. *Experimental Analysis of Behavior.* A series of experiments on discrimination, differentiation, motivation, and intermittent reinforcement. Outside reading and written reports will be required in connection with experiments. Two hours of lecture-discussion and four hours of laboratory weekly throughout the year. Prerequisite, 21-22. Enrollment limited. Mr. Godcharles.

33. *Individual Differences.* A study of the variability in normal behavior from the viewpoint of its biological and social origins, development, and measurement. Two hours of lecture-discussion and one laboratory period weekly. Prerequisite, 21-22. Mr. Lundin.

34. *Abnormal Behavior.* Personality disturbances, their nature, determinants, and relationship to normal behavior. Lecture-discussions, film, and clinical demonstrations. Prerequisite, 21-22. Mr. Lundin.

35. *Sensation and Perception.* An experimental investigation of the determinants and properties of sensory and perceptual experience in man. Two hours of lecture-discussion and one laboratory period weekly. Prerequisite, 21-22. Enrollment limited. Mr. Godcharles.

41. *Problems in Psychology.* A systematic analysis of some contemporary problem or problems in the field of learning. Students cover materials from current texts and journals in preparation of reports on particular problem areas. Prerequisites, 21-22, and one

other course in Psychology which may be taken concurrently. Alternates with 42. (Not offered in 1963-64.)

42. *Contemporary Theories and Systems of Psychology.* A study of various psychological schools of thought with major emphasis on the late nineteenth and twentieth century systems and theories, and an analysis of the movements leading to the development of current psychological theorizing. Prerequisite, 21-22. Alternates with 41. (Not offered in 1963-64.)

PUBLIC SPEAKING

Messrs. Todd, Hunt, Carson, Wright, McClintock, and Moses

Work in Public Speaking is required of all students for four years. Freshmen will satisfy the requirement by taking 11-12. Sophomores must elect one of the following: 21-22, 23-24, 25-26, 27-28. Juniors and seniors may satisfy the requirement in one of three ways: (1) by electing Advanced Public Speaking (39, 40) (2) through approved supervised non-credit work in speech such as practice teaching and preaching, intercollegiate debate, college theatrical activities (3) with the approval of the Department, by electing with credit a 21 level course not previously taken.

11-12. *Freshmen Public Speaking.* An introduction to the principles of effective oral communication through platform speaking. First semester: informative speaking. Principles of organization, delivery and techniques for clarity and interest. Second semester; persuasive speaking. Uses of logical and emotional appeal plus effective language in oral discourse. Both semesters include oral work, written outlines, use of text, individual conferences and a departmental examination. Required of all freshmen. Two hours a week. Credit: two hours each semester. The Department.

21-22. *Argumentation.* Study of theories of argumentation. Practice in various forms, including debate. Emphasis on methods of developing and testing evidence and arguments, and on evaluating the uses of various persuasive techniques. Introduction to parliamentary procedure. Prerequisite, 11-12. Juniors and seniors must have the approval of the Department. Two hours a week. Credit: Two hours per semestter. (Not offered in 1963-64.)

23-24. *Discussion.* Study and practice of principles of discussion, problem-solving through committees and small groups, techniques of interviewing, conference leadership and participation. Emphasis

on factors of recognizing, analyzing and solving problems through group action. Prerequisite, 11-12. Juniors and seniors must have the approval of the Department. Two hours a week. Credit: two hours per semester. Messrs. Todd, Carson and McClintock.

25-26. *Oral Interpretation.* Oral presentation of literature with emphasis on drama. Analysis and discussion of material as it relates to the oral interpreter. Various styles and techniques of oral presentation recorded and evaluated. Prerequisite, 11-12. Juniors and seniors must have the approval of the Department. Two hours a week. Credit: two hours per semester. Mr. Moses.

27-28. *British and American Public Address.* A critical survey of leading British and American spokesmen whose leadership is largely attributed to their rhetoric. Techniques of rhetorical criticism as applied to significant speeches in British and American history. Outside reading. Prerequisite, 11-12. Juniors and seniors must have the approval of the Department. Two hours a week. Credit: two hours per semester. Mr. Wright.

39. *Advanced Public Speaking.* Each junior who is not participating in one of the 21 level elective courses, or in any of the approved extracurricular activities, will be required to make one major public address during each of his two final years. Two hours attendance per week for six weeks. Credit: One hour each year. The Department.

40. *Advanced Public Speaking.* Identical with 39, but for seniors only. The Department.

ROMANCE LANGUAGES

French

Messrs. Moraud, Hamlin, Uffenbeck, Davis, Cholakian, Hidalgo, and LeBras

11. *Study of Basic French (Français Fondamental).* Formulated by a special commission appointed by the French Ministry of Education in 1951. Oral and written work. The course is limited to students who have had no previous training in French. Offered first semester only. Messrs. Moraud and Hidalgo.

12. *Second Semester French.* Thorough grounding in grammar and pronunciation. Reading in graded texts. Prerequisite, French 11 or one unit of entrance French. Offered each semester. Messrs. Moraud, Cholakian, and Hidalgo.

13. *Intermediate French A.* Review of grammar and syntax. Reading of selected texts. Oral practice. Prerequisite, French 12 or two units of entrance French. Offered each semester. Messrs. Uffenbeck and Cholakian.

14. *Intermediate French B.* Intensive reading of selected texts, with outside reading. Oral practice. Prerequisite, French 13 or two units of entrance French. Offered each semester. Messrs. Hamlin, Uffenbeck, Cholakian, and LeBras.

15. *Intermediate French C.* Reading of selected texts with emphasis on the literary aspects through the *explications de textes* method. Outside reading and conversation. Prerequiste, French 14 or French 13 for unusually well-prepared students upon recommendation of the instructor. Offered second semester only. Messrs. Hamlin and LeBras.

21-22. *Introduction to Literature.* Survey course of French literature from the seventeenth century to the present; conducted largely in French. Reports on outside reading. Prerequiste, 13-14 or its equivalent. Messrs. Hamlin, Uffenbech, and LeBras.

23-24. *French Literature.* Survey course in French literature from the seventeenth century to the present; conducted entirely in French. Prerequisite, 15 with a grade of C or higher, or 14 with a grade of B or better, or the consent of the department. Not open to students who have taken 21-22. Mr. Moraud.

29-30. *Composition and Oral Practice.* A practical course, conducted entirely in French, which emphasizes the oral and written use of the language. Sections limited to twelve students. Prerequisite, the consent of the department. Mr. LeBras.

31-32. *Seventeenth Century Literature.* The growth of classicism in France during the seventeeth century. Lectures, discussions, outside reading, and written reports. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. Mr. Hamlin.

33. *Eighteenth Century Literature.* The Age of Enlightenment and the opening of new horizons leading to the Revolution. Lectures, discussions, outside reading, and written reports. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. Mr. Cholakian.

34. *Problems in French Literature.* A study of specific problems and movements in French literature. Topic for 1962-63: the originality and intense individualism of the French Renaissance as re-

flected in the Humanists, Rabelais, Calvin, Montaigne, and the Pléiade poets. Special attention will be given to Hellenism, Platoism, Petrarchism, the Baroque, Protestantism and Skepticism as seen in the literary documents of the period. Lectures, discussion, outside reading and written reports. Conducted entirely in French. Mr. Cholakian.

35-36. *Nineteenth Century Literature.* Romanticism, realism, naturalism, and symbolism. Lectures, discussions, outside reading, and written reports. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. Mr. Uffenbeck.

37-38. *Contemporary Literature.* Representative authors of the twentieth century. Topics assigned for report and discussion; papers read and criticized in the classroom. Conducted entirely in French. Prerequisite, satisfaction of the language requirement or its equivalent. Mr. Moraud.

Junior Year in France Director, Mr. Davis. See page 35.

Spanish

Messrs. Jablon and Hidalgo

11-12. *Elementary Spanish.* Thorough grounding in grammar and pronunciation. Reading in graded texts. Open to freshmen. Freshmen granted credit for 11-12 only upon completion of Spanish 13-14. Others granted credit for 11-12 without completing 13-14 only upon recommendation by the chairman of the department. Credit, three hours each semester. Messrs. Jablon and Hidalgo.

13-14. *Intermediate Spanish.* Review of grammar and syntax. Intensive reading of selected texts, with outside reading. Oral practice. Prerequisite 11-12 or at least two units of entrance Spanish. Required of sophomores who have taken 11-12. Messrs. Jablon and Hidalgo.

21-22. *Introduction to Literature.* Survey course, conducted largely in Spanish, of Spanish literature from the Golden Age to the present. Outside reading reports. Prerequisite, 13-14 or its equivalent. Messrs. Jablon and Hidalgo.

29-30. *Composition and Oral Practice.* A practical course, conducted entirely in Spanish, which emphasizes the oral and written use of the language. Sections limited to twelve students. Prerequisite, the consent of the department. Messrs. Jablon and Hidalgo.

31. *Spanish American Literature.* A survey course, with special emphasis on the novel and the poetry of the nineteenth and twentieth centuries. Lectures, discussions, outside reading, and written reports. Conducted entirely in Spanish. Prerequisite, satisfaction of the language requirement or its equivalent. (Not offered in 1963-64.)

34. *Golden Age Drama.* Study of important Spanish dramatists of the sixteenth and seventeenth centuries, with brief reference to the poets of the period. Lectures, discussions, outside reading, and written reports. Conducted in Spanish. Prerequisite, satisfaction of the language requirement or its equivalent. (Not offered in 1963-64.)

35. *Golden Age Prose.* The development of the novel in Spain during the sixteenth and seventeeth centuries, with special emphasis on Cervantes. Lectures, discussions, outside reading, and written reports. Conducted in Spanish. Prerequisite, satisfaction of the language requirement or its equivalent. Mr. Jablon.

36. *Nineteenth Century Literature.* Romanticism, realism, and naturalism in Spain. Lectures, discussions, outside reading, and written reports. Conducted in Spanish. Prerequisite, satisfaction of the language department or its equivalent. Mr. Hidalgo.

38. *Twentieth Century Literature.* The Generation of 1898 and its successors in Spain. Lectures, discussions, outside reading, and written reports. Conducted in Spanish. Prerequisite, satisfaction of the Department or its equivalent. (Not offered in 1963-64.)

RUSSIAN

Mr. Moody

11-12. *Elementary Russian.* Grammar, pronunciation, oral practice. Open to sophomores.

13-14. *Intermediate Russian.* Grammar, reading, oral practice. Prerequisite, 11-12 or its equivalent.

21-22. *Advanced Russian.* Reading of literary texts from the 19th century and the modern period. Prerequisite, 13-14.

Planning for a Career

A COLLEGE education is never an end in itself. Whether a man intends to enter upon his career immediately after graduation or to continue his education in a graduate or professional school, the College endeavors to help him choose wisely and prepare himself appropriately.

FOUNDATIONS for a CAREER

Counseling

In order to help the student to determine what courses are most suited to his purposes and his aptitudes, the Dean and Associate Dean, assisted by members of the Faculty, devote considerable attention to counseling every undergraduate throughout his course. In particular, they confer at length with each freshman at the beginning of the year, and frequently afterward, to aid him with his academic and personal problems. They are available for conferences with students in their offices in Root Hall. Similarly, each member of the Faculty keeps regular office hours to see his students individually.

Preparation for the Professions

Since a great many Hamilton men continue in graduate study, proper education for such work is an important aim of the College curriculum. One of the most significant recommendations which a man may present to a graduate school of any kind, or to any employer, is a good academic record in a reputable college. Certainly the student will wish that record to show preparation suited to his career or to the proposed graduate study. The faculty advisors of the College have as one of their prime responsibilities that of helping the student to plan his program with an eye to just such needs. The following brief comments may be helpful to the undergraduate in planning his work in relation to the various types of graduate study.

Engineering

To meet the needs of students who wish to combine liberal arts with education in engineering, Hamilton College has entered into cooperative arrangements with the School of Engineering of Columbia University, Massachusetts Institute of Technology, and Rensselaer Polytechnic Institute. Under this arrangement qualified students may plan a combined five-year course of study of which the first three years are spent at Hamilton and the last two at a cooperating institution. On the completion of this five-year program, students may receive the degree of Bachelor of Arts from Hamilton College and the degree of Bachelor of Science from the engineering school. Full details of this cooperative program may be secured from the Secretary of Admission at Hamilton.

Medicine and Dentistry

Virtually all recognized medical and dental schools require year-courses in general chemistry, organic chemistry, biology, and physics. In addition, Hamilton feels that qualitative and quantitative chemistry and a second year-course in biology are essential for satisfactory medical school preparation. Study in mathematics and additional science courses is also recommended, but the pre-medical student need not feel it necessary to concentrate in a science department.

Graduate Study in Arts and Sciences

Students who anticipate working for an M.A. or a Ph.D. should note that almost without exception a reading knowledge of French or German is required for the master's degree and a reading knowledge of both for the doctors' degree. Election of one or both of these languages is therefore strongly recommended. In addition, many graduate schools require a knowledge of Latin for degrees in English and modern languages. A student contemplating advanced work in science should plan to take mathematics at least through analytical geometry and elementary calculus. Certain types of scientific study will require more mathematics.

Teaching

Hamilton is proud of the number and quality of its graduates

who are successful teachers and school administrators. For those students who plan a teaching career, Hamilton has entered into a cooperative plan with Harvard University, through the support of the Fund for the Advancement of Education. Hamilton graduates who wish to prepare for teaching in primary or secondary schools or in junior colleges may enroll at Harvard in a one-year program leading to the degree of Master of Arts in Teaching. Undergraduates interested in this or other post-graduate training should consult with the Hamilton Department of Education before planning their course programs, and must keep in mind that individual states set up specific course and hour requirements for the certification of their public school teachers. The prospective public school teacher usually will elect three year-courses in education, including practice teaching, as an undergraduate, and will probably concentrate in the subject which he expects to teach.

Business, Law, Government Service

For many careers and professions it is impossible to prescribe any set program—the law, for example, ministry, business administration, or government service. The best preparation for these is probably well-developed skills in reading, speaking, and writing, a wide choice of courses, and concentration in the area which the student finds most interesting. The man who anticipates a life's work in law or government, or economics, and the future business administrator may concentrate in economics, but for careers of this sort, specialization need not begin early and often may better begin late.

Placement Office

Although considerably more than half of each senior class at Hamilton goes on to graduate study for one or another of the professions, many graduates enter directly upon their careers. The Placement Office exists to aid them in securing positions suited to their aptitudes and interests. Information on leading industries and government agencies is available in the office throughout the year, and in the spring interviews for interested students are scheduled with representatives of the many firms that visit the campus. The office maintains a personal file on each student interested in these interviews.

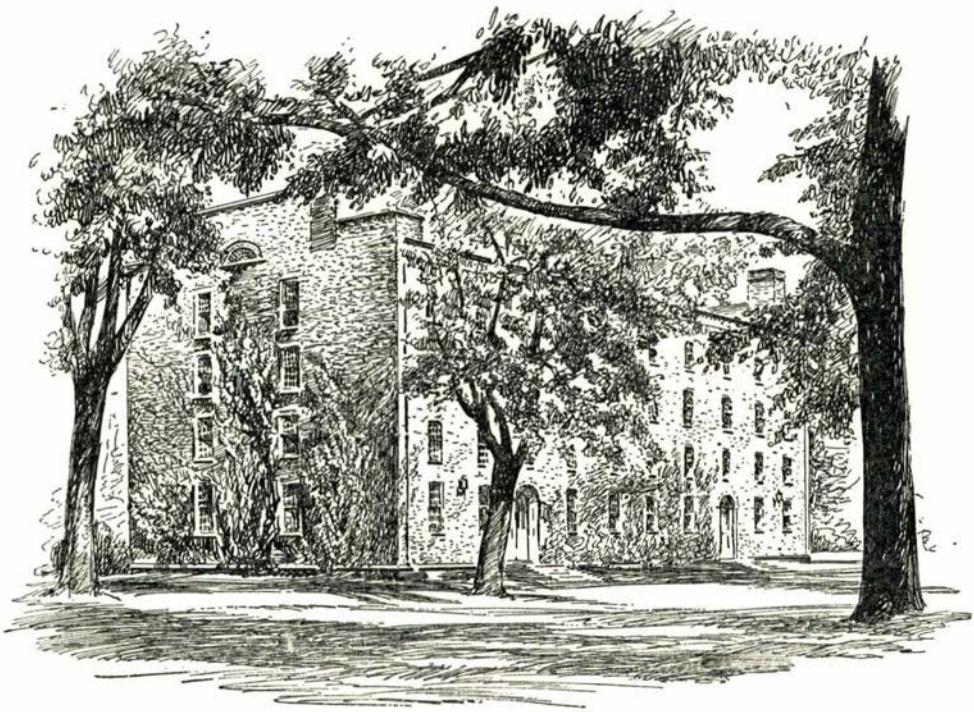
Through a cooperative arrangement with Colgate University students may also register for interviews at Colgate and attend the bi-annual careers conference there. The Hamilton Placement Office periodically sponsors a series of conferences on campus to acquaint students with the opportunities and requirements of various careers. Placement for summer employment is handled through the office of the Associate Dean.

3

GENERAL INFORMATION

The College and Its Resources

Undergraduate Life



North Dormitory

The College and Its Resources

HAMILTON COLLEGE is located near the center of New York State, nine miles from the city of Utica and one mile from the village of Clinton. The post office address of the College is Clinton, New York.

Direct railway service is available to Utica, which is served by the New York Central Railroad. The Oneida County Airport, served by Mohawk Airlines, and the Westmoreland Exit of the New York State Thruway (Exit 32) are within twelve miles of the campus.

Railway express service is provided to Clinton by the Railway Express Agency, which delivers from its Utica depot to dormitories and fraternity houses.

BUILDINGS and GROUNDS

The campus itself is a wooded park of about two hundred acres overlooking the Oriskany and Mohawk valleys. In 1951, through the generous gift of members of the Root family, the ROOT WILD GARDEN, consisting of over two hundred acres of land located south of the Root Glen, was added to the college campus. In all, the College buildings and grounds consist of about five hundred acres of land and twenty-five buildings, compactly arranged in three quadrangles. Most of these buildings are constructed of a limestone quarried only a few miles from the campus.

In addition, the College owns 68 houses and apartment units occupied by members of the faculty or staff, and their families. Eleven fraternity houses, owned by fraternity trustees, furnish living quarters for many of the students.

Dormitories

Five buildings—KIRKLAND COLLEGE (1840), NORTH COLLEGE (1842), CARNEGIE HALL (1904), SOUTH COLLEGE (1906), and DUNHAM DORMITORY (1958)—afford sleeping accommodations for nearly two-thirds of the student body. Any freshman who does not live at home is re-

quired to live in Dunham Dormitory; unmarried upperclassmen not residing at home are required to live in either a fraternity house or a College dormitory.

The four old dormitories have been modernized and redecorated in the past decade and new furniture has been installed during the post-war years. The dormitories are equipped with an automatic fire-alarm system for the protection of life and property.

DUNHAM DORMITORY is arranged in suites of three rooms—two studies and one bedroom—for four men. Single rooms are available for upperclassmen in KIRKLAND and NORTH COLLEGES. CARNEGIE HALL and SOUTH COLLEGE are arranged in suites for two, three, or four occupants. Essential furniture—beds, desks, chairs, and chiffoniers—is provided. All dormitory beds are three feet wide and six feet six inches long. Rooms are leased for the academic year only. The buildings are closed during vacation and the College reserves the right to use dormitory rooms during holiday periods.

Classrooms, Laboratories, Offices

Seven buildings are devoted to instruction: SILLIMAN HALL, BENEDICT HALL OF LANGUAGES, ROOT HALL, TRUAX HALL OF PHILOSOPHY, the CHEMISTRY BUILDING, the SCIENCE BUILDING, and the ROOT ART CENTER. Silliman Hall (1889), originally the gift of Horace B. Silliman, Honorary '90, Benedict Hall (1897), the gift of Horace Harper Benedict, '69, Truax Hall (1900), gift of Chauncey S. Truax, '75, and the Chemistry Building, which was erected in 1903 and rebuilt and enlarged in 1930, all provide classroom facilities. Root Hall, given by Elihu Root, '64, in memory of his father, Oren Root, Class of 1833, contains classrooms, the offices of the Dean, Associate Dean, and the Secretary of Admission, and three studios, the gift of the late Edward Wales Root, '05. The Science Building, constructed in 1925, contains the Knox Museum of Natural History, a science library, departmental classrooms, and laboratories in physics, geology, biology, psychology, and anthropology. The Root Art Center (1804), formerly the home of the late Edward Wales Root, an eminent art collector, was purchased by the College in the summer of 1962. It contains classrooms, lounges, art galleries, the offices of the Music Department, practice rooms, listening booths, and a one manual *Positif* organ. The various buildings also contain faculty offices.

Administration Building

Built in 1812, BUTTRICK HALL is as old as the College itself. As the birthplace of Elihu Root, the building is of historical interest. In 1926 it was restored and reconstructed as the administrative headquarters of the College. Buttrick Hall now houses the offices of the President, the Administrative Vice President, the Assistant Business Manager, the Director of Alumni Affairs, the Director of Public Relations, the Director of Development, the Aide to the President, and the Placement Director. Meetings of the Board of Trustees and faculty are held in the building.

The Chapel

The Chapel, restored in 1949 as a World War II memorial, occupies the central site of the campus. Designed in 1827 by Philip Hooker and completed the following year, the Chapel is thought to be the last remaining example of an early three-story church in America. The center of the religious life of the College, it also affords a place for public lectures, college assemblies, and concerts. As part of the 1949 restoration, the chapel organ, too, was rebuilt, and a double organ (a great organ and a *rückpositif*) installed. In 1958, the College Choir and other friends of the late William T. Steinhilber of the Class of 1958 contributed a set of *trompettes en chamade* in his memory.

Kirkland Cottage

The oldest (1792) building on the campus, Kirkland Cottage was first built near the foot of College Hill as a home by Samuel Kirkland, the founder of Hamilton College. In 1925 the cottage was moved uphill to its present campus site and later restored. Its furnishings now include Samuel Kirkland's desk and chair and other pieces of historical interest to visitors. The cottage is regularly used by Pentagon, senior honorary society, for its meetings.

The Infirmary

The THOMAS BROWN RUDD INFIRMARY, named for Hamilton's thirteenth president, was completed in the fall of 1959. It contains one large ward, two private rooms, waiting, examination, and X-ray rooms, a physician's office, and quarters for the two nurses on duty.

The Commons

The SOPER COMMONS, gift of Arthur W. Soper, Honorary '93, Alexander C. Soper, '67, and James P. Soper, was built in 1903 and an extensive renovation was completed in 1958. The building includes a large dining hall for the freshman class, a smaller dining hall for non-fraternity upperclassmen, two lounges, a coffee shop, the College Store, and the College Post Office.

Athletic Facilities

The ALUMNI GYMNASIUM (1940), gift of some three thousand alumni and friends of the College, contains a regulation swimming pool, courts for basketball, squash, and badminton, facilities for fencing, indoor baseball and wrestling, locker and team rooms, a library, and the Baker Memorial Lounge Room, as well as offices for members of the physical education staff.

The RUSSELL SAGE BUILDING (1921) which is connected with the Gymnasium, houses an 85- by 200-foot indoor artificial ice rink and a 220-yard cinder running track. The hard-surface floor is used during fall and spring for indoor tennis, and for volleyball and football practice during inclement weather.

Adjoining these buildings are the STEUBEN FOOTBALL FIELD with its quarter-mile cinder track, a baseball diamond, nine all-weather tennis courts, and a soccer and lacrosse field, as well as intramural fields.

The HAMILTON B. TOMPKINS GOLF COURSE, covering sixty-five acres, constitutes part of the campus.

THE LIBRARY

The Library, considered a laboratory of the liberal arts, holds over 255,000 volumes, an unusually large collection for a college the size of Hamilton. It is growing at the rate of approximately 4,000 volumes a year. About 600 periodicals are received regularly, including certain microfilm and micro-card editions. A rental collection of pictures and sculptures, both originals and reproductions, is maintained for the embellishment of students' rooms. The Browsing Room, for students' leisure-time reading, houses 1,500 volumes.

Students have free access to the stacks and are instructed in the use of catalogs, bibliographies, and reference works, and in other

research techniques. Typing space and research desks for students undertaking independent studies and term papers are provided. Use of the Library is covered by the Honor System (page 81). Books may be borrowed for a full semester and no library fines are imposed.

Noteworthy among the Library's special holdings are the Ezra Pound Collection, the Rare Book Collection, the Alumni Collection of books written by and about graduates of the College, the Samuel Hopkins Adams Collection of College and regional history, and the Edward Robinson Collection of books on Palestinian travel.

There are four separate departmental libraries on the campus: in the Science Building, 15,000 volumes for use in connection with courses in biology, geology, and anthropology, and 1,300 volumes in the Physics Department; 2,500 volumes in the Chemistry Building; and the Alumni Gymnasium collection of books on hygiene and athletics.

SCIENTIFIC COLLECTIONS

The Knox Museum of Natural History, in the Science Building, contains valuable scientific collections in geology, mineralogy, biology, and anthropology. The geology and mineralogy collections, originated about 1850 by Professor Oren Root, of the Class of 1833, now include more than 100,000 specimens. There are also biological and geological models, an herbarium, and large collections of shells, insects, butterflies, birds and mammals. The anthropological collection includes 2,000 specimens from the American Indian and Neolithic lake dweller civilizations, and from other primitive culture.

MEDICAL SERVICE

Students are attended by the college physician, who is available in the Infirmary daily at regularly scheduled hours and is on call in cases of emergency. Associated with him are two nurses in regular attendance at the Infirmary. A clinical pathologist and a consultant in roentgenology serve the students when needed.

Payment of the over-all Fee (page 14) entitles the students to the services of the College physicians and the resident nurses. Except for board, one week in the Infirmary in each semester is provided without further cost; for time in excess of that amount a

charge of three dollars a day is made. No charge is made for medicine and other materials used in dispensary treatment, except medicines costing a dollar or more and X-rays. The patient's board is not covered by the Over-all Fee and is charged at the current college rate. A student who regularly takes his meals at Commons receives credit for the meals missed while he is in the Infirmary.

Group accident insurance is extended without spearate charge to all regularly enrolled students who pay the Over-All Fee. This insurance will cover the actual cost, up to $500, of any medical or surgical treatment, including hospitalization and the services of trained nurses and other necessary medical charges that may be required in consequence of an accident. Excluded, however, are all such charges that may be incurred at the College-operated Infirmary. The coverage runs for twelve months and affords protection against all accidents whether sustained at the College or elsewhere. In addition, the College carries a medical disaster contract, applying to each and every student, again involving accident only and providing that for all charges incurred in connection with an accident above $500, the insurance carrier will pay 80 percent of such charges up to a maximum amount of $5,000 per accident.

Undergraduate Life

The STUDENT SENATE, a body of twenty undergraduates representing all four classes, all eleven fraternities, and the non-fraternity men, serves as the governing body for student affairs and meets biweekly throughout the year to conduct its business within the statutes established by the Board of Trustees. The Senate also provides an annual scholarship worth between $350 and $450. It is the parent body of four undergraduate groups, as follows:

The STUDENT INTRAMURAL COUNCIL, which, with the advice of the Director of Athletics, assumes full responsibility for the conduct and scope of intramural athletics;

The SOCIAL COMMITTEE, which is the steering committee for such events as class dances, Winter Carnival and other social activities;

The STUDENT ADMISSION COMMITTEE, which works closely with the Office of Admission to interest promising high school and preparatory school students in Hamilton;

The STUDENT CURRICULUM COMMITTEE, which is organized to consider and recommend to the faculty additions or changes in the College curriculum.

Honor System

The administration of examinations, the preparation of certain compositions outside the classroom, and the use of the Library are governed by the student Honor System, established by students over fifty years ago. The Honor System creates for each student two imperatives: he must refrain from fraud himself, and he must report any observed fraudulent action on the part of any other student.

The System, which receives strong support from both the students and the faculty, permits examinations to be taken without proctors and generally gives the student more personal freedom than would be possible without the System.

The Honor System is carefully explained during the new student's orientation period and is fully described in the *Student Handbook*. Administration of the Honor System is by an Honor Court composed of representatives of the four classes. This Court investigates all alleged violations of the Honor System and makes recommendations to the faculty for action against violators.

Religious Services

The College, while under no denominational control, is in the Christian tradition and regards divine worship as a regular part of the life of its students. It vows its historic debt both to the Christian faith and to the devotion of its founders. Public worship, at which attendance is required, is observed each Sunday evening. The sermons are by the Dean of the Chapel, other members of the faculty, or guest preachers. Students who, for reason of personal conscience, desire to attend services other than those at the College may make special arrangements to do so.

Every Christian man who enters the College is urged to become a member of the Chapel Congregation. The Lord's Supper is celebrated regularly during the college year.

A memorial to John Herschel Morron, of the Class of 1859, established by the bequest of his son, John R. Morron, provides an endowment, the income of which has been used to establish the annual JOHN HERSCHEL MORRON LECTURESHIP in religious thought.

The CHAPEL BOARD, composed of students and faculty members, advises the College on the program of Sunday services and Chapel forums. The board also sponsors a series of seminars conducted by various members of the faculty on subjects of religious interest; arranges for Communion services; sponsors a series of motion picture programs for the benefit of the Harlan F. Woodfork Scholarship; and conducts an annual clothing drive to aid European or Korean displaced persons and a yearly Campus Fund campaign for the benefit of several foreign colleges and scholarship funds.

Episcopal students have the opportunity of joining the CANTERBURY CLUB, and Roman Catholics the NEWMAN CLUB, both having active chapters on the campus. These groups meet frequently for discussions with their own priests.

Lectures and Concerts

Lectures and concerts are provided during the year for the college community from the income of endowments established for the purpose, augmented by general college funds.

The MYERS LECTURES were established in 1912 in memory of John Ripley Myers, of the Class of 1885. The foundation is intended "to bring into the life of the college community new men and new points of view not covered by the ordinary curriculum of the College, and to add to its cultural possibilities."

The WOOD MEMORIAL LECTURESHIP was established in memory of Frank Hoyt Wood, for many years professor of political science at the College.

The WINSLOW LECTURES IN CLASSICAL ARCHAEOLOGY were established with a bequest by William Copley Winslow, D.D., of the Class of 1862.

The TRUAX MEMORIAL LECTURES IN PHILOSOPHY were established in 1956 by R. Hawley Truax, of the Class of 1909, in memory of his father, Chauncey S. Truax of the Class of 1875, to strengthen the instructional program in philosophy through visits to the College by distinguished lecturers in that field.

Art Program

The art department, through the generosity of the late Edward Wales Root of the Class of 1905, has been provided with three skylighted studios, an exhibition room, and offices for the two members of the department, all located in Root Hall. Mr. Root's gift also made possible the purchase of equipment and materials for individual instruction in creative drawing and painting.

Seven annual exhibitions are presented in the ROOT ART CENTER, accompanied by gallery talks corresponding to the shows. Works of art for the exhibitions are provided by the Munson-Williams-Proctor Institute of Utica. The excellent permanent and visiting exhibitions at the Institute are also available to students.

The ART LENDING LIBRARY, administered by the College Library, consists of a collection of about two hundred original prints, copies, and sculptures. Students may rent the pictures in this collection by the semester for a nominal fee.

Athletics

POLICY. Hamilton College follows an athletic policy that reflects and interprets the educational philosophy and ideals of the College. There are three interlocking programs: intercollegiate sports, the intramural program, and the individual development program, which consists of individual instruction leading to proficiency in a number of different sports, all of which have postgraduate value. The wide variety of approved sports in the three programs makes it possible for every student to engage in a form of athletics suited to his individual needs.

SCHEDULES. Sports events generally are scheduled with colleges

whose size, educational standards, and athletic policy are similar to Hamilton's. Hamilton is not a member of any athletic league or conference, nor does it participate in post-season games. The faculty sets limits and gives final approval to all athletic schedules.

The ATHLETIC DEPARTMENT is one of the academic departments of the College. The coaches, who are members of the faculty, conduct the regularly-scheduled physical education classes. The department's budget is one part of the academic budget; the department's finances are directed by the College Business Office.

The recognized intercollegiate sports are football, soccer, cross-country, basketball, ice hockey, swimming, baseball, golf, lacrosse, tennis, and track. Informal intercollegiate competition is conducted also by ski, squash and sailing groups. Interclass and interfraternity competition is normally held in touch football, basketball, ice hockey, track, softball, golf, tennis, volley ball, swimming, table tennis, squash, bowling, badminton and handball. The student Intramural Council assumes responsibility for intramural athletics.

The BLOCK H CLUB, consisting of those undergraduates who have received their letters in varsity sports, is dedicated to working for the best interests of athletics at Hamilton College.

Eight athletic awards are given annually to varsity players who are outstanding for the sportsmanship, personal attitude and general contribution to their team: the THOMAS MOORE SHERMAN AWARD, established by Sherrill Sherman, '04, in golf; the JOHN STRICKLAND AWARD, established by John Strickland, '05, in baseball; the FOWLER AWARD, established by Richard S. Fowler, '23, in football; the PAULDING F. SELLERS, JR., AWARD, established by Harry O. Harman, '30, in hockey; the JAMES H. CAMPBELL AWARD, established by Donald C. Hiler, '30, in basketball; the SHULMAN AWARD in soccer, established by Mandel G. Shulman, '44; the CLASS OF 1904 AWARD in tennis; the CRANE AWARD in cross-country, established by Dr. A. Reynolds Crane, '29; and the AHNER AWARD in track, established by Walter L. Ahner, '28.

Debating

Each year students participate in numerous intercollegiate debates. Much attention has been given in recent years to debates and panel discussions delivered before luncheon clubs, parent-teacher associations, and other organizations in central New York.

Several Hamilton students participate in the annual state intercollegiate debate assembly. Since 1922, Hamilton College has had a chapter of DELTA SIGMA RHO, the honorary forensic fraternity. The College frequently plays host to state and sectional debate touraments.

Dramatics

The CHARLATANS, the College dramatic society, was organized in 1909 by a group of students headed by Professor Emeritus Robert Barnes Rudd and the late Alexander Woollcott. Today, as then, membership in the group is open to all students having an interest in dramatics or stagecraft. Usually the Charlatans present two full-length productions and the three best student-written, one-act plays each year. Outstanding work with the Charlatans is a prerequisite to election to ALPHA PSI OMEGA, national honorary dramatics society, the local chapter of which was established in 1951. Performances are held in the Minor Theater.

The College also offers a course in dramatic interpretations; see Public Speaking 25-26.

Music

The COLLEGE CHOIR provides music for the Sunday Chapel service, gives a concert on Commencement Weekend, and sings at other special occasions. Engagements off the campus and joint concerts with choral organizations of women's colleges are commonly arrange each year. The activities and direction of the Choir are under the jurisdiction of the Department of Music. Ability to sing is the sole requirement for admission; previous experience is helpful but not necessary.

The BUFFERS, an octet specializing in light music, perform on the campus and at neighboring colleges.

The COLLEGE BAND, organized in 1932, is also under the general direction and control of the Department of Music. Membership is open to any student who can play an instrument. The Band plays at athletic contests and on other special occasions.

The BRASS CHOIR has numerous opportunities to perform throughout the year, providing music on occasion for the Sunday Chapel services and for other College functions. As an adjunct to the Col-

lege Choir, it participates in the joint concerts with other colleges, both on and off the campus.

The CHAMBER ORCHESTRA gives at least one concert a year in conjunction with a women's college. It also participates in numerous other concerts, both on and off campus.

The WOODWIND ENSEMBLE provides an opportunity for the performance of chamber music for various combinations of instruments. Concerts are held at the College and elsewhere.

The HAMILTON COLLEGE SINGING TROPHY is awarded annually on the basis of interclass competition held on Class and Charter Day late in May. Each spring, an intramural sing determines the winner of the BERRIAN R. SHUTE INTRAMURAL SING TROPHY, donated by the College Choir and named for the late chairman of the College's Department of Music.

Publications

All student publications are managed by the HAMILTON COLLEGE PUBLICATIONS BOARD, an organization chartered by the Board of Trustees and consisting of ten directors—five students and five members of the administrative staff and faculty. The chairman of the board is always a student. The directors are responsible for the editorial policy of all publications, for the adjudication of editorial problems, and for financial management. All business matters are directed by a student business manager.

Student publications are *The Spectator,* a weekly newspaper, *The Continental,* a literary magazine, and *The Hamiltonian,* an annual. Payment of the Over-all Fee (page 14) entitles students to receive all publications.

The COLLEGE PRESS BOARD provides an opportunity for students interested in journalism to gain both practical experience and remuneration by serving as correspondents for newspapers published in neighboring cities and for such news services as the Associated Press and the United Press International.

For outstanding work on College Publications or the Press Board, students may be elected to the local chapter of PI DELTA EPSILON, the national honorary journalism fraternity.

Clubs

Students interested in a particular field of study find a common ground in the DEPARTMENTAL CLUBS which meet at intervals during

the college year. Discussions, presentation of papers, and a social hour provide the customary program, and meetings take place either in fraternity houses or at the homes of faculty members. Field trips may also be held. Among such groups are the clubs sponsored by the Biology, French, Spanish, and German departments.

The INTERNATIONAL RELATIONS CLUB is an undergraduate organization, with student officers and a faculty advisor, whose purpose is to stimulate and plan student discussions on current international issues. The club meets twice a month and sponsors lectures and informal discussions conducted by the student members. It also sends a delegation to the annual meeting of the Model United Nations.

The OUTING CLUB organizes and conducts hikes, ski trips and camping tours.

The FILM SOCIETY, directed by students, presents a program of quality motion pictures, domestic and foreign. KINOKUNST GESELLSCHAFT regularly features motion picture classics of the past.

RADIO STATION WHCL-FM, operated entirely by students, broadcasts daily to the area. Music, sports, news, debates, and lectures on timely subjects constitute most of the station's schedule.

Social Organizations

Most of the social life of the College is organized around the eleven fraternities which are active at Hamilton: SIGMA PHI (1831), ALPHA DELTA PHI (1832), PSI UPSILON (1843), CHI PSI (1845), DELTA UPSILON (1847), DELTA KAPPA EPSILON (1856), THETA DELTA CHI (1868), EMERSON LITERARY SOCIETY (1882), TAU KAPPA EPSILON (1930), DELTA PHI (1950), and GRYPHON (1958).*

All the fraternities are represented on the Student Senate (page 81). The PRESIDENT'S TROPHY FOR SCHOLASTIC ATTAINMENT, an annual award, is given to that group which has made the greatest achievement in scholastic average during the preceding academic year.

Rushing and pledging to fraternities take place shortly after the end of the first semester. In conjunction with the deferment of rushing, which became effective in the fall of 1959, the Student Senate adopted a plan to assure that all freshmen who wish to join

* Dates given indicate the year when local chapters were established at Hamilton.

fraternities will have an opportunity to do so. This system has enjoyed greater success in each of the three years it has been in operation. Currently 85 per cent of the student body belong to fraternities. Initiation costs average $50; costs of membership average about $100 per semester.

For the students who do not join fraternities, the College provides dining facilities in the Hall of Commons and priority in rooming assignments in the newly renovated Kirkland Hall, where lounge facilities are available.

Honor Societies

Each of the three upper classes has an honorary society, members of which are chosen in the spring of the preceding academic year. The senior honorary group, PENTAGON, chooses five men annually on the basis of their leadership and devotion to the College. The junior honorary society, WAS LOS, annually chooses six men who have demonstrated leadership in campus activities. The sophomore honorary body, D.T., elects thirteen outstanding athletes and campus leaders.

The honor societies sponsor such varied campus activities as blood-bank drives, rallies, and College dances, serve as cheer leaders, campus escorts and commencement ushers, and in general pledge themselves to improvement of the undergraduate activities of the College.

Automobiles

Only juniors and seniors in good standing who are not receiving scholarship aid may maintain automobiles or other vehicles on or in the vicinity of the College grounds. All automobiles must be registered with the Associate Dean.

4

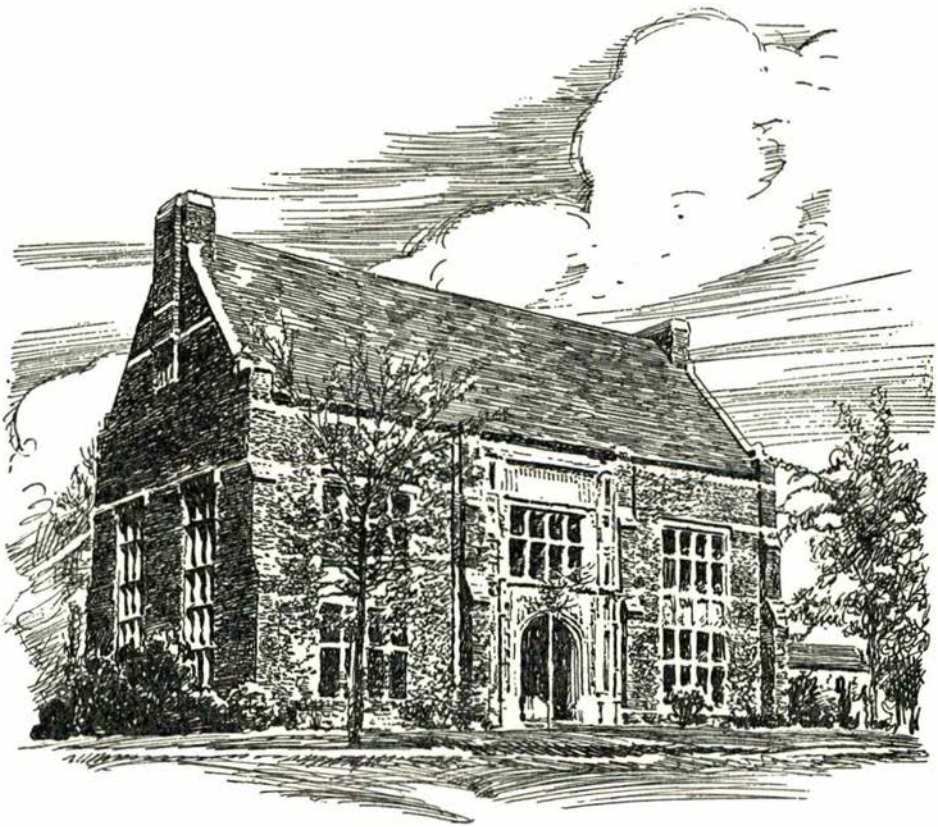
HONORS AND AWARDS

Honors

Fellowships

Prize Scholarships

Prizes



The Library

Honors and Awards

HONORS and prizes are conferred for general excellence, or for superiority in a special field. To compete for a prize, a student must be in regular standing. Information concerning details of oration and essay competitions may be obtained from members of the Department of Public Speaking.

HONORS

Phi Beta Kappa

The Hamilton chapter of Phi Beta Kappa, known as the Epsilon Chapter of New York, was established in 1870. Students are elected to membership primarily for intellectual distinction. In September, the chapter may choose not more than five seniors having especially distinguished records during their first three years. Other seniors are elected in April. Except by unanimous consent of the chapter, not more than one-eighth of a class may be chosen.

Commencement Honors

The valedictorian and the salutatorian are the two seniors whose average grades for the course are respectively highest and second highest.

Department Honors

Department honors may be awarded at Commencement in subjects in which a concentration is possible. To qualify for this honor a student must have a cumulative average of at least 85 in all departmental courses acceptable for a concentration. He must also attain a grade of at least B in the comprehensive examination and must receive the recommendation of the department of concentration.

At Commencement students may be cited for excellence in Public Speaking upon recommendation of the department.

FELLOWSHIPS

The Root Fellowship

The Root Fellowship in Science, established in 1894 by the Honorable Elihu Root, of the Class of 1864, is ordinarily granted for a single year of graduate study at some American or European university approved for that purpose in each individual instance by the faculty.

Any member of the senior class of high standing who has shown marked ability and special aptitude for research in one or more of the departments of science may be nominated for this award by those departments. From the men thus nominated, the faculty will select one who shall be recommended to the Trustees for appointment.

Classical Fellowships

Hamilton contributes regularly to the support of the American School of Classical Studies at Athens and of the School of Classical Studies of the American Academy in Rome. Graduates of the College are thereby entitled to compete for the annual fellowships awarded by these schools and to pursue studies at either institution without payment of tuition. The contribution to the school at Athens is provided from the income of an endowment established by the will of the late Professor Edward Fitch, of the Class of 1886; that to the Rome academy from a grant made by Henry P. Bristol, Lee H. Bristol, and William M. Bristol, Jr., of the classes of 1910, 1914, and 1917, respectively, in memory of their uncle, Professor George P. Bristol, of the Class of 1876.

PRIZE SCHOLARSHIPS

Prize scholarships are competitive and are awarded to students in recognition of outstanding achievement. A number of scholarship foundations, established by alumni and friends of the College, support them.

To be eligible for a prize scholarship, a student must have maintained for the previous semester a C average with no failure and no delinquency in attendance.

Arnold Prize Scholarships

The Benjamin Walworth Arnold Prize Scholarship Fund, given by Mrs. Benjamin Walworth Arnold in memory of her late hus-

band, provides four prize scholarships, of which one is to be given annually to that holder of a regular scholarship in each college class who in the preceding year (or in the first semester in the case of freshmen) shall have made the best record in his college courses.

General Prize Scholarships

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN GREEK. Founded by E. Root Fitch, of the Class of 1886, a scholarship is awarded annually to that student who, on completion of Greek 11-12, shall have maintained the best record in that subject. To be eligible for the award, the appointee must elect Greek 21-22.

E. ROOT FITCH PRIZE SCHOLARSHIP. A scholarship founded by E. Root Fitch, of the Class of 1886, is awarded annually to that member of the Hamilton chapter of Delta Upsilon who, having maintained at least a C average for two consecutive years, makes in the second of these years the greatest improvement in this scholastic record.

Senior Prize Scholarships

Three senior prize scholarships are awarded each year in mathematics, Latin, and German. Each is awarded for excellence in the specified field as determined by the recipient's work in his freshman, sophomore, and junior years, and at the discretion of the departments, by a competitive examination at the end of the junior year. it is required that the appointee elect in his senior year at least one advanced course in the department of the award and complete the senior year at Hamilton. These prizes are the:

(1) EDWARD HUNTINGTON MEMORIAL MATHEMATICAL SCHOLARSHIP, founded by Alexander C. Soper, LL.D., of the Class of 1867.

(2) ATHUR W. SOPER LATIN SCHOLARSHIP, established by the Honorable Charles Holland Duell, LL.D., of the Class of 1871.

(3) DUELL GERMAN SCHOLARSHIP, also founded by the Honorable Charles Holland Duell.

CHAUNCEY S. TRUAX PRIZE SCHOLARSHIP IN GREEK. The Truax Scholarship is awarded to that senior who shall have stood highest in the study of Greek for the first three years with an average grade of no less than 85. Preference will be shown to candidates who entered Hamilton as freshmen with credit in Greek.

FRANK HUMPHREY RISTINE SCHOLARSHIP. Established by former students and other friends of the late Frank H. Ristine, professor

of English literature from 1912 to 1952, the Ristine Scholarship is awarded for excellence in English. Consideration is also given to general academic standing, need for financial aid, and campus citizenship.

CAPTAIN GERALD FITZGERALD DALE SENIOR SCHOLARSHIP. This scholarship is awarded to a senior who has completed his junior year with distinction in literature, language, music, science or social science and ranks in the top tenth of a class over one hundred in number or in the top quarter of a class of fewer than one hundred and who needs financial aid. In addition, he must have demonstrated his promise for useful citizenship by his character, his standing among his fellows, and his contribution to the extracurricular life of the College.

Junior Prize Scholarships

OREN ROOT PRIZE SCHOLARSHIPS. Two scholarships are awarded to the two juniors who have the best records in mathematics during the freshman and sophomore years and who continue that subject through the junior year.

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN LATIN. A scholarship founded by E. Root Fitch, of the Class of 1886, is awarded annually to that sophomore who, at the end of one or two years of Latin, shall have maintained the best record in that subject. To be eligible for the award, the appointee must elect Latin in his junior year.

Sophomore Prize Scholarships

FAYERWEATHER PRIZE SCHOLARSHIPS. Five scholarships are awarded to the five sophomores who, at the end of the freshman year, have made the highest average in their class. (See also Brockway Prize, below.)

The HARLAN F. WOODFORK SCHOLARSHIP, founded and maintained by the Student Christian Association, is awarded annually to a student at the end of his freshman year on the basis of character and need.

PRIZES

Achievement Prizes

BABCOCK PRIZE IN PHILOSOPHY AND PEDAGOGY. A foundation established by Edward S. Babcock, of the Class of 1896, provides a prize

for that senior who shall have excelled "in philosophy, and particularly in the science of pedagogy."

BROCKWAY PRIZE. A foundation established by A. Norton Brockway, M.D., of the Class of 1857, provides a prize which is awarded to that member of the freshman class who has made the best academic record.

CLARK PRIZE ORATORICAL CONTEST. A foundation begun by Aaron Clark, A.M., and increased by Henry A. Clark, of the Class of 1838, provides a prize for that senior who is adjudged to be the best speaker in the annual oratorical contest.

CURRAN PRIZE IN GREEK AND LATIN. A foundation established by relatives of Colonel Henry H. Curran, of the Class of 1862, provides a prize in Greek and Latin, offered to juniors. The award is determined by written examinations in Greek and Latin. The competition in a given year is based upon Greek 31-32 or 33-34 and upon Latin 31-32 or 33-34.

NELSON CLARK DALE, JR., PRIZE IN MUSIC. A foundation in memory of Captain Nelson Clark Dale, Jr., U.S.M.C.R., of the Class of 1942, established by his parents, provides a prize for that student who has shown exceptional ability in music as composer, interpreter, or leader, or who has contributed most to the musical life of the College. The committee of award shall consist of members of the Department of Music and a senior to be selected by the department.

DARLING PRIZE IN AMERICAN HISTORY. A foundation established by Charles W. Darling and supplemented by a friend of the College, provides a prize for the senior having the most distinguished record in at least two courses in American history offered to his class.

GELAS MEMORIAL PRIZE. A foundation established in 1955 by a group of alumni to honor the memory of Jean-Marius Gélas, fencing coach and Professor of Physical Education from 1921 to 1946, provides an award to the senior who has shown the greatest development in strength of character, leadership, and athletic ability during his college days.

FRANCIS W. GILBERT PRIZE. A gift presented by the Class of 1953 in memory of Francis Gilbert, fellow in history at Hamilton College from 1946 to 1953, provides a cash award to be presented at a college convocation to that sophomore who, in the opinion of the Dean of the College, has shown the greatest scholastic improvement in the second semester of his freshman year.

EDGAR BALDWIN GRAVES PRIZE IN HISTORY. A foundation established by a former student provides a prize for the senior who excels in the study of history.

HAWLEY PRIZES IN GREEK AND LATIN. A foundation established by Martin Hawley, of the Class of 1851, provides two book prizes, equal in value, one for excellence in Greek and one for excellence in Latin. The awards are made to the students who have the best records in Greek 21-22 and Latin 21-22, respectively.

HOLBROOK PRIZE IN BIOLOGY. A foundation established by David A. Holbrook, of the Class of 1844, provides a prize for the senior having the best record in three year-courses in biology.

WALLACE BRADLEY JOHNSON PRIZE. A foundation established by alumni of the College, in honor of Wallace B. Johnson of the Class of 1915, provides a prize for that student who writes the best one-act play produced at the College.

KNEELAND PRIZE. A foundation established by the Reverend Martin Dwelle Kneeland, D.D., of the Class of 1869, provides a prize for the student who has the best record when his grades in a year-course on the Bible and in an essay competition on an assigned biblical subject are combined.

MC KINNEY PRIZE DEBATE. A foundation established by Charles McKinney provides two prizes for seniors excelling in extemporaneous debate.

MC KINNEY PRIZE SPEAKING CONTEST. A foundation established by Charles McKinney provides book prizes for the two men in each of the three lower classes who excel in public speaking.

JAMES SOPER MERRILL PRIZE. A foundation established in memory of James Soper Merrill by his cousin, James P. Soper, Jr., of the Class of 1911, provides as a prize a gold watch which is awarded at Commencement to that member of the graduating class "who, in character and influence, has best typified the highest ideals of the College." The faculty shall select the recipient of this award.

NORTON FOUNDATION. Thomas Herbert Norton, Ph.D., Sc.D., of the Class of 1873, has provided a foundation for the encouragment of research in chemistry. It is prescribed that the income in each year shall be given as a prize to that undergraduate or graduate student in the College who shall have demonstrated the greatest capacity for research in chemistry.

PUTNAM PRIZE IN AMERICAN HISTORY. The gift of Dr. Frederick W. Putnam, of Binghamton, supplemented by a friend of the Col-

lege, provides a prize of books for the senior having the second most distinguished record in at least two courses in American history offered to his class.

RENWICK PRIZE SCHOLARSHIP IN BIOLOGY. This scholarship, founded by Edward A. Renwick, A.M., of Chicago, Illinois, is awarded to a member of the senior or junior class appointed by the faculty, for the study of biology during the summer vacation.

ROGERS PRIZE IN GEOLOGY. A foundation established by E. Albert Rogers, of the Class of 1898, provides a prize for that senior having a major in geology who excels in the courses of his concentration program.

SOUTHWORTH PRIZE IN PHYSICS. A foundation established by Tertius D. Southworth, of the Class of 1827, provides a prize for the senior who excels in physics.

SQUIRES PRIZE IN PHILOSOPHY. A foundation established by Byron B. Taggart, of the Class of 1896, in honor of the late William Harder Squires, Ph.D., of the Class of 1888, provides a prize to be awarded annually, with the approval of the faculty, to that senior who shall have the highest grade when the marks for three-year-courses in philosophy and a special examination designed for the purpose are combined.

TOMPKINS PRIZES IN MATHEMATICS. A foundation established by Hamilton B. Tompkins, A.M., of the Class of 1865, provides two prizes for juniors who excel in mathematics. The award is made upon the basis of an examination near the close of the junior year, involving the work in Mathematics 15-16, 25-26, and 31-32 or 33-34.

UNDERWOOD PRIZE IN CHEMISTRY. A foundation begun by George Underwood, of the Class of 1838, and increased by J. Platt Underwood, of the Class of 1870, provides a prize for the senior who excels in chemistry.

VROOMAN PRIZE. Through the generosity of John W. Vrooman, LL.D., a foundation provides a prize to be awarded to that freshman who shall have passed the best admission examination on some portion of the Greek New Testament.

WINCHELL PRIZE IN GREEK. A foundation established by Walter B. Winchell, M.D., of the Class of 1880, provides a prize to be awarded annually, with the approval of the faculty, to the student who, beginning Greek in college, shall have the best record in three year-courses in this language.

WINSLOW PRIZE IN GREEK. A foundation established by William

Copley Winslow, D.D., of the Class of 1862, provides a prize to be awarded annually to the member of the sophomore class attaining the greatest proficiency in Greek for the year.

WINSLOW PRIZE IN LATIN. A foundation established by William Copley Winslow, D.D., of the Class of 1862, provides a prize to be awarded annually to the member of the freshman class attaining the greatest proficiency in Latin for the year.

WINSLOW PRIZE IN ROMANCE LANGUAGES. A foundation established by William Copley Winslow, D. D., of the Class of 1862, provides a prize to be awarded annually to the member of the junior class attaining the greatest proficiency in Romance Languages during his college course.

WYLD PRIZE IN GERMAN. A foundation by Lionel D. Wyld, of the Class of 1949, in memory of Mary E. and Fred H. Wyld, Sr., provides a prize to a junior or senior for excellence in German as evidenced by course work and an essay.

Essay Prizes

DEAN ALFANGE ESSAY PRIZE. A foundation of five thousand dollars by Dean Alfange, of the Class of 1922, provides a first and a second prize for the students writing the best essays on a feature or an issue of American constitutional government.

COBB ESSAY PRIZE. A foundation of five hundred dollars by Willard A. Cobb, of the Class of 1864, provides a prize for the student submitting the best essay on journalism.

CUNNINGHAM ESSAY PRIZE. A foundation of five hundred dollars by John Howard Cunningham, of the Class of 1866, provides a prize for the senior submitting the best essay on some phase of the life of Abraham Lincoln.

HEAD ESSAY PRIZE. A foundation of one thousand dollars by Franklin H. Head, LL.D., of the Class of 1856, provides a prize for the best senior essay upon a theme relating to Alexander Hamilton.

HUTTON ESSAY PRIZE. A foundation of five hundred dollars by William Hutton, D.D., of the Class of 1864, provides a prize for the sophomore submitting the best essay on an assigned subject in the history, translations, or literature of the Bible.

KELLOGG ESSAY PRIZE. A foundation of seven hundred dollars by Charles C. Kellogg, of the Class of 1849, provides book prizes for a junior, sophomore, and freshman who excel in English essays.

KIRKLAND ESSAY PRIZE. A foundation of five hundred dollars by Mrs. A. R. Kirkland provides a prize for the senior writing the best essay upon a theme in Biblical science.

PRUYN ESSAY PRIZE. A foundation of five hundred dollars by former Chancellor John Van Schaick Lansing Pruyn of the University of the State of New York, given on August 5, 1863, has provided for the award annually of the so-called Pruyn Medal. Under a revision of his terms, as approved by his heirs on October 26, 1933, a money prize is offered for the senior or junior writing the best essay on "The Political Duties of Educated Young Men."

SOPER ESSAY PRIZE. A foundation of fifteen hundred dollars by Arthur W. Soper provides a prize for the best essay on a topic in economics assigned by the faculty. The competition is open to all seniors who are taking a second or third year-course in economics.

APPENDIX

COLLEGE RECORDS 1962-1963

Board of Trustees

The Faculty

Administrative Officers and Staff

Society of Alumni

Degrees, Honors, and Awards

Hamilton College Finances

Board of Trustees

OFFICERS

GRANT KEEHN ..... *Chairman*

HENRY C. ESTABROOK ..... *Clerk*

ROBERT A. KERR ..... *Treasurer*

CLARK H. MINOR ..... *Chairman Emeritus*

	FIRST ELECTED	TERM EXPIRES
DANIEL BURKE,* LL.D., New York	1913	Life
JOHN L. STRICKLAND,* Ph.B., Utica	1923	Life
ELIHU ROOT, JR.,* LL.D., New York	1924	Life
CLARK H. MINOR,* D.Eng., New York	1927	Life
GEORGE L. ABBOTT,* Ph.B., Palmyra	1932	Life
EDWARD R. EVANS,* M.D., Utica	1932	Life
GEORGE F. GENTES,* B.S., New York	1937	Life
ALEXANDER F. OSBORN,* L.H.D., Buffalo	1941	Life
CLANCY D. CONNELL,* A.B., New York	1944	Life
CHARLES F. HEMENWAY,* A.B., Chicago, Illinois	1947	Life
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FREDERIC P. LEE,* A.M., Bethesda, Maryland	1942	1965
WILLARD B. EDDY,* M.S., Rochester	1946	1966
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GRANT KEEHN, M.B.A., New York	1948	1964
ROBERT W. MCEWEN, Ph.D., Clinton	1948	
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LOUIS N. BROCKWAY, A.B., New York	1951	1968
HOWARD M. BINGHAM, B.S., Detroit, Michigan	1952	1964
FRED L. PALMER, A.B., Summit, New Jersey	1952	1964
ROBERT L. REED, LL.B., New York	1955	1967
LLOYD V. ALMIRALL, LL.B., New York	1958	1964

* Emeritus

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Richard W. Couper, A.M., Binghamton	1959	1965
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Charles D. Root, Jr., B.S., Philadelphia, Pennsylvania	1960	1966
Robert A. Kerr, A.B., New York	1960	1964
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Martin F. Hilfinger, Jr., M.D., Syracuse	1963	1969
Francis E. Mineka, Ph.D., Ithaca	1963	1969

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† Absent on leave, second semester, 1963-64.
‡ Absent on leave, 1963-64.

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† Absent on leave, 1963-64.

‡ Director, Hamilton College Junior Year in France, 1963-64.

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A.B., University of Chicago

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H. Roswell Bates by Lt. Col. William A. Aiken	20,000
Edwin Baylies	5,000
Bement by Albert C. Phillips	2,020
James L. Bennett	4,000
Mrs. James L. Bradley	2,000
O. T. Bundy	2,000
William Burton	1,500
William F. Canough	102,231
Andrew Carnegie	57,500
Laura Carter	12,000
George A. Clark (Byne)	5,000
Class of 1867	2,005
Class of 1899	2,516
Class of 1909	7,074
P. Charles Cole	1,000
Captain Gerald Fitzgerald Dale	9,275
William E. Davis	1,894
Melville Emory Dayton Memorial	8,000
William E. Dodge	5,000
Charles Holland Duell	10,500
Duell, German	5,300
George E. Dunham	36,000
Lieutenant Willard B. Eddy, Jr.	28,558
Ethel Kelsey Evans	4,396
Charles Melville Fay	28,725
Fayerweather	10,000
H. P. Ferguson	2,464
Elizabeth R. Fitch	26,335

Rosewell P. Flower	2,000
Alexander Folsom	2,000
Charlotte Foster Babcock Memorial	9,759
Geneva Presbytery	1,700
Charles D. Gilfillan	2,500
Eleanor F. Green	25,000
John G. Green	35,000
A. Delos Gridley	5,000
David S. Hastings	14,044
Anna M. Hoffman Estate	1,000
Theodore S. Hubbard	3,500
Arthur Hunter Scholarship	2,500
Edward Huntington	5,000
The Honorable Irving M. Ives	15,100
D. Willis James	2,000
Samuel H. Jardin	4,000
Marcus Judson	1,000
Henry W. King	2,000
John J. Knox	1,500
Leavenworth	26,238
Henry M. Love, '83, Scholarship	21,000
William DeLoss Love	20,060
Augusta M. Loevenguth Memorial Scholarship	60,695
Julia J. MacCartee (Darling Memorial)	9,525
Annie L. MacKinnon by Edward Fitch	5,000
John MacNair	5,000
Marquand by Alan Trask	4,000
Willard Bostwick Marsh	25,000
Charles G. Matteson Memorial	1,020
Reuben L. Maynard	186,150
Henry Scott McCall	1,000
George D. Miller	74,224
National Lead Foundation Scholarship, in honor of Harry O. Bates, '99	1,000
Nichols by Erastus N. Nichols	748
Renwick	1,300
Frank H. Ristine	5,559
Oren Root	10,000
Oren Root, Jr.	5,000
Charlotte B. Sackett Memorial	10,569
Seventy-five Year Class	17,332
C. C. Sheppard	1,500
Horace B. Silliman	3,000
A. P. Sloan	2,000
A. W. Soper	10,000
Arthur W. Soper	5,000
James P. Soper	2,000
S. B. Steere	10,000

Edgar Eginton Stewart, Jr., Memorial	5,000
C. S. Truax	20,697
The Tunnicliffe Scholarship	96,117
J. Platt Underwood	5,125
Walcott and Pettibone	9,500
Henry Wales	2,982
Edward C. Walker III, '12	2,500
J. B. Wells	2,000
Knut O. Westlye	2,329
Sylvester Willard Memorial by Mrs. S. Willard	2,000
Leroy Williams	146,198
William Jansen Woods	278,101

Degrees, Honors and Awards

1963

DEGREES in COURSE

Bachelor of Arts

William Stuart Abbey
Arthur DeWitt Ackerman
Taggart Donaldson Adams
Jay Allan Anderson
Samuel Currie Armstrong
Richard Carleton Arnow, Jr.
Michael David Badenhausen
Russel Alvin Bantham, Jr.
Lynn James Barden
Thomas Priestley Bennett
Stephen Porter Bent
Robert Groesbeck Blabey, Jr.
John Loren Bolane
Alain Goldwater Bourgeois
Geoffrey Brown
Jerome Miles Brown
Steven Laird Brown
Walter Armin Brown
John Joseph Carusone, Jr.
Robert Brent Caton
James Burke Chapin
Richard Neil Chapman
Alan DeWitt Christie
Anthony David Cobourn
Peter Felix Coccia
John Francis Conroy
David Edward Corbit
John Marcus Cox
Samuel Renninger Crowl
William Lester Curtis, Jr.
Drew Saunders Days, III
Lawrence Albert DeLong
Frank Sheldon Denton
Robert Edwin Dietz, IV
Robert Stewart Disney
George Russell Dixon
Steven Word Driscoll
Donald Quinn Drislane
Lanie Earl Eagleton
Richard Danforth Eberle
Richard Gates Ehrlich
Roger Ralph Eibl
Richard Alan Erlanger
Shepley Wilson Evans
Robert Carter Fallows
Duncan Richard Farney
Richard Studley Farr
Gault Macalister Farrell
Marshall Lincoln Field
James Steven Finster
Peter Bruce Fischer
Hugh Armstrong Fitzgerald
Sean Kevin Fitzpatrick
Douglas Orr Fleck
Edward Newbould Fleischer
Robert Andrew Foose
David Lawrence Fox
Ronald Stowell Frantz
John Allen Fredenburg
William Einar Gall
James Priest Gifford
William Michael Gorman
William Thomas Goss
Jerome Theodore Gram
Michael Herbert Granof
Allen Jay Green
John David Halverson
Waldo Ross Hatch
Carl Theral Hayden
Kenneth Krementz Hazen
Andrew Stearns Hedden
Edward Arthur Heinemann
William Charles Henderson
David Loomis Henehan
Peter Charles Herbruck
Richard Butler Hilton
James Kazuo Honke
Alan Harris Howard
William J. Hunt
Arthur William Huptich, Jr.
Dean Clarence Hutchinson
James Harold Hutchinson
Maurice Lamotte Jenks
Jeremy Jones

Robert Anthony Joseph
Stephen Nelson Judy
Justin Griffith Kahn
Kenneth Roger Kahn
Edwin James Kenney, Jr.
Donald Anderson Kepler, Jr.
Herbert Irving Kestenbaum
Allen George Kleinke
Stephen Franklin Knapp
Alan Joel Korostoff
John Francis Larkin
David Michael Lascell
Philip Merrell Lewis
Martin Saul Liberman
Thomas Haythorne Lightbown
Peter Marston Lindley
Martin Gates Linihan, Jr.
Gordon Jay Lipson
Peter Bernard Luskey
Hauthaway Mabbett, Jr.
John MacCrate, III
David Caswell MacGregor
Kingsley Bradford Martin
Thomas Commerford Martin
Ulysses Grant Mason, III
Robert Arthur May, Jr.
Lars Charles Mazzola
John Francis McCabe
Thomas Matthew McCormack
William Thomas McKay
John Wilson McMullan
John Buck Meloy
George Martin Meslow
David Michelson
Daniel James Mickewich
Paul Alden Mills
Robert Graham Miner
Roy Seeley Moore, Jr.
William Herbert Morgan
Christopher Gilbert Morris
Franklin Morris O'Connell
George Frederick Oeste
Eric Matthew Osgood
John Wesley Oler
Warren Merrit Palmer
Peter David Parry
David Beatty Parsell
Bradford Grant Perkins
Charles Samuel Peyser, Jr.
Daniel Dana Pickard
Stephen Nisbet Plant
Dennis Howard Pritchard
Walter Herbert Pritchard
Bruno Puetzer, Jr.
John William Reilly
Gordon Roderick Ring
Kennedy Kendall Roberts
Albert Frederick Rodewald
Frederic Rueckert, Jr.
Richard Malcolm Sadai
Paul Radant Sahler
John Arthur Sanders
Charles Richardson Sawyer
Stephen Philip Scheible
Karl Frederick Schofer, Jr.
Eugene Arthur Scott
William Hensley Serumgard
Jon Michael Sheeser
Laurence David Sheldon
Ray Douglas Sheldon
George Rhodes Sherwin
Douglas Cornwell Shoemaker
Peter Walrath Siersma
Paul Silverman
Richard Keith Skillman
Seymour Maslin Smith
John Elias Soffey
Sherman Gray Souther
Scott Perrin Spacie
David Alan Spector
Richard Howard Stamelman
George David Staples
Robert Alan Stookey
Joseph Edmond Strzepek
John Stanton Sullivan
John Arthur Sully
Lorin Marc Swagel
John Eric Swenson
Ford Tyler Swetnam, Jr.
Paul Nicholas Tavelli
Bruce Gregory Temple
Aaron Neil Tessler
Charles Goodell Thacher
Donald Frederick Thiergard
Kent Sheridan Tiffany
Malcolm Hoagland Tinker, Jr.
Emory Soule Todd, Jr.
John Patrick Toohey
David Lewis Tripp
Alan Roger Turner
Curtis Joel Ufford
John Charles Ulreich, Jr.
Peter Albert VanderPutten
Alex Barthell Vaughn
John Axel von Bergen
Bary Jay Wagner
Edward Stanley Walker, Jr.
Robert Edie Warner

Christopher Hiram Washburn
Gary Bradford Watrous
Lawrence Leonard Weed
Larry Edward Weidemier
Lorin S. Weisenfeld
Thomas Robert Wellman
Howard Philip West, Jr.
Perry Lee Wheaton
Douglas Paul Wheeler
James Bright Whitesides, Jr.
Lari Lee Whiting
Richard Royal Wier, Jr.
Thomas Mayhew Wing
David Hallock Wood
Robert William Wunderle

HONORARY DEGREES

DOCTOR OF HUMANE LETTERS ..... Sarah Gibson Blanding
DOCTOR OF LAWS ..... Howard Stix Cullman
Clifton W. Phalen
DOCTOR OF DIVINITY ..... Lyman Cunningham Ogilby
DOCTOR OF LETTERS ..... Robert William James Russell
DOCTOR OF FINE ARTS ..... Joseph S. Trovato

Degrees, Honors and Awards

SCHOLARSHIP HONORS for the COURSE
Class of 1963

HIGH HONOR* ..... Parry, Valedictorian

HONOR ..... Weisenfeld, Salutatorian
Adams, Bourgeois, Caton, Eagleton, Gall, Gifford, Heinemann, Henehan, Judy, Kahn, K., Luskey, Meslow, Mickewich, Morgan, Oler, Shofer, Sheeser, Ulreich, Wagner, Wellman, West, Wood

CREDIT ..... Arnow, Bantham, Blabey, Brown, J., Chapin, Cox, Days, DeLong, Denton, Driscoll, Farney, Fischer, Fleck, Fox, Goss, Granof, Henderson, Howard, Hunt, Kenney, Kestenbaum, Korostoff, Lewis, Linihan, Lipson, Michelson, Parsell, Ring, Rodewald, Sadai, Scheible, Scott, Sheldon, R., Siersma, Skillman, Souther, Stamelman, Stookey, Strzepek, Sully, Swagel, Swetnam, Tessler, Tiffany, Ufford, Warner, Washburn, Wheeler, Wier

ELECTIONS to PHI BETA KAPPA

September, 1962 ..... Parry, Wagner, Weisenfeld
March, 1963 ..... Eagleton, Gall, Kahn, K., Luskey, Mickewich, Morgan, Oler, Schofer, Sheeser, Ulreich, West, Wood

DEPARTMENT HONORS

ANTHROPOLGY ..... Sheldon, L.
ART ..... von Bergen
BIOLOGY ..... Blabey, Gall, Siersma
CHEMISTRY ..... Caton, Eagleton, Fischer, Mickewich
ECONOMICS ..... Granof, Linihan, Skillman, Washburn
ENGLISH LITERATURE ..... Anderson, Arnow, Days, Kahn, K., Kenney, Swetnam, Ulreich, West
FRENCH ..... Heinemann, Parsell, Shofer, Sheeser, Stamelman, Swenson
GEOLOGY ..... Wellman
GERMAN ..... Morgan, Tiffany, Ufford
GOVERNMENT ..... Gifford, Luskey, Oler, Weisenfeld, Wheeler
HISTORY ..... Adams, Chapin, Fox, Ring, Wagner
MATHEMATICS ..... Scott, Wood
MUSIC ..... Rodewald, Sheldon, R.
PHILOSOPHY ..... Bourgeois, Warner
PHYSICS ..... Parry
PSYCHOLOGY ..... Peyser
PUBLIC SPEAKING .... Bantham, Judy, Kahn, K., Parry, Souther, West, Wheeler
SPANISH ..... Scheible

* High Honor—90 or above; Honor—Below 90 but not lower than 85; Credit—Below 85 but not lower than 80.

SCHOLARSHIP HONORS

For the Year 1962-63

Senior Class

HIGH HONOR ..... Gall, Parry, Peyser, Scott, Swetnam, Tiffany, Ulreich, Wood

HONOR ..... Adams, Anderson, Bantham, Bourgeois, Brown, J., Caton, Chapin, Days, Farney, Fitzpatrick, Fox, Gifford, Granof, Heinemann, Henehan, Kahn, K., Kenney, Knapp, Lascell, Linihan, Lipson, Luskey, Mickewich, Morgan, Oler, Parsell, Ring, Scheible, Schofer, Sheldon, R., Skillman, Strzepek, Swagel, Ufford, Wagner, Warner, Washburn, Weisenfeld, Wellman, West, Wheeler

CREDIT ..... Armstrong, Arnow, Badenhausen, Barden, Bennett, Blabey, Brown, S., Chapman, Cox, Curtis, DeLong, Denton, Driscoll, Eagleton, Erlanger, Fischer, Fleck, Fleischer, Frantz, Goss, Hayden, Henderson, Herbruck, Howard, Hunt, Huptich, Judy, Kahn, J., Kepler, Kestenbaum, Kleinke, Korostoff, Lewis, Lightbown, Lindley, MacGregor, Mazzola, McCormack, McMullen, Meslow, Michelson, Mills, Morris, Puetzer, Rodewald, Sanders, Sawyer, Sheeser, Sheldon, L., Siersma, Souther, Stamelman, Staples, Stookey, Sully, Swenson, Tripp, Vaughn, Wier

Junior Class

HIGH HONOR ..... Kopecek, Lathrop, Tunstall

HONOR ..... Anderson, J., Boggs, Collings, Colodner, Evans, Goodman, Knobel, Mausolf, Maxwell, Morris, Moses, Papero, Phillips, Postles, Smith, W., Stevens, Turner, Underwood, Willis

CREDIT ..... Anderson, Ballotti, Bashian, Boak, Busky, Capozzella, Cowl, Cramer, Davis, Ellis, Finch, Frederick, Hall, Hand, Hogan, Kendrick, Laird, Lawrence, Livingston, Lynde, McCouch, Memmott, Mendelsohn, Miller, Mowen, Nassau, Oberholtzer, Ollestad, Payne, Raphel, Rice, Ripps, Ross, Starr, Stebbins, Stewart, Stringham, Sutter, Sutton, Terrell, Van Schoick, Vickery, Volckmann, Weltner, Willis, Witt, Wrigley

Sophomore Class

HIGH HONOR ..... Nicholson, Park, Robinson

HONOR ..... Barringer, Brainerd, Buchanan, Carrithers, Clarkson, Cook, Dougherty, Gemmill, Gross, House, Kopp, Lane, Nathan, Paull, Pollack, Pomeroy, Robinson, Schuman, Sheahan, Toohey, Vincent, Webb, Willoughby, Winter

CREDIT ..... Bauer, Betjemann, Bianchi, Blabey, Blankstein, Bowman, Cozad, Crego, Daley, Fraser, Frechtling, Grubin, Gutman, Harpending, Jeffery, Johnson, D., Johnson, J., Kern, Kessler, J., Kessler, R., Kremen, Mace, Nadzo, Neun, Nichols, Niles, O'Connell, Osborne, Parker, Pasko, Putnam, Reinstein, Risley, Roberts, Simon, Smith, Stamm, Sterling, Stovall, Strohmeyer, Swoboda, Toomajian, Wagoner, Weaver, Whitney, Wilbur, Wingert

Freshman Class

HIGH HONOR ..... Ward

HONOR ..... Albro, Bender, Coury, Crane, Feldan, Gouge, Grubin, Hazlett, Klein, Krulis, McCann, Mercado, Morris, Newkirk, Steinberg, Thornton, Van Benschoten, Willner, Willse, Wortzel

CREDIT ..... Angell, Asfar, Batcheller, Bourdillon, Brand, Cohen, Craig, Cusick, Davidson, Dowd, Eberle, Fiscella, Fisch, Frese, Goodale, Gray, Haddow, Herlihy, Higgins, Kaufman, Kelley, Kerpen, Kirchenbaum, Kuperman, Littman, Lundberg, Meade, Milici, Millet, Murray, J., Murray, T., Newell, Nichols, Philipps, Pudaloff, Robertson, Robison, Rogers, Ruhl, Schwartz, Shaw, Sigman, Snyder, Stear, Stevenson, Stolting, Studenmund, Wexler

Special Students

CREDIT ..... Blanksma, Burschell

FELLOWSHIPS, SCHOLARSHIPS, and PRIZES

CAPTAIN GERALD FITZGERALD DALE SENIOR SCHOLARSHIP ..... Tunstall

DUELL GERMAN SCHOLARSHIP ..... Tunstall

DR. EDWARD FITCH PRIZE SCHOLARSHIP IN GREEK ..... Paull

EDWARD HUNTINGTON MEMORIAL MATHEMATICAL SCHOLARSHIP .. Anderson, J. T.

HENRY M. LOVE SCHOLARSHIP ..... Mazzola

OREN ROOT PRIZE SCHOLARSHIPS IN MATHEMATICS ..... Nicholson, Pomeroy

FRANK HUMPHREY RISTINE SCHOLARSHIP ..... Morris, David

CHAUNCEY S. TRUAX PRIZE SCHOLARSHIP IN GREEK ..... Kopecek

HARLAN F. WOODFORK SCHOLARSHIP ..... Miller, O.

DEAN ALFANGE ESSAY PRIZE ..... First, Gifford; Second, Turner, M.

BABCOCK PRIZE IN PHILOSOPHY AND PEDAGOGY ..... Warner

CLARK PRIZE ORATION ..... Bantham

COBB ESSAY PRIZE ..... Henderson, W.

NELSON CLARK DALE, JR., PRIZE IN MUSIC ..... Sheldon, R.

DARLING PRIZE IN AMERICAN HISTORY ..... Bantham

GELAS MEMORIAL PRIZE ..... Pierson

HAWLEY PRIZE IN GREEK ..... Ulreich

HEAD ESSAY PRIZE ..... Bolane

HOLBROOK PRIZE IN BIOLOGY ..... Gall

WALLACE BRADLEY JOHNSON PRIZE ..... Fitzpatrick

KINOKUNST GESELLSCHAFT PRIZE ..... Tiffany

KIRKLAND ESSAY PRIZE ..... West

MCKINNEY PRIZE DEBATE ..... First, Wheeler; Second, Gifford

MCKINNEY PRIZE SPEAKING ..... Junior, Kopecek; Sophomore, Winter; Freshman, Ward, J.

JAMES SOPER MERRILL PRIZE ..... Oler

NORTON FOUNDATION ..... Fischer

PHI BETA KAPPA PRIZE ..... Kahn, J.

PRUYN ESSAY PRIZE ..... Collamer

PUTNAM PRIZE IN AMERICAN HISTORY ..... Adams, T.

ROGERS PRIZE IN GEOLOGY ..... Wellman

SOPER ESSAY PRIZE ..... (Tied), Driscoll, Granof

SOUTHWORTH PRIZE IN PHYSICS ..... Parry

SQUIRES PRIZE IN PHILOSOPHY ..... Bourgeois

TOMPKINS PRIZES IN MATHEMATICS ..... First, Anderson, J. T.; Sesond, Storck

UNDERWOOD PRIZE IN CHEMISTRY ..... (Tied), Eagleton, Mickewich

VROOMAN PRIZE ..... Milici

WINCHELL PRIZE IN GREEK ..... Kopecek

WINSLOW PRIZE IN GREEK ..... Paull

WINSLOW PRIZE IN ROMANCE LANGUAGES ..... Picardi

WYLD PRIZE IN GERMAN ..... Wagoner

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